

Fig. 2.

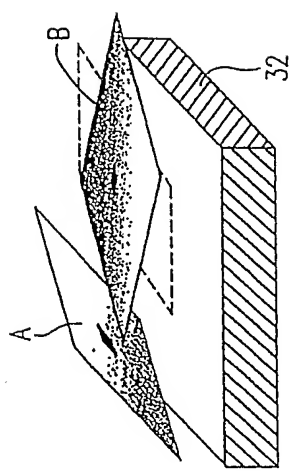


Fig. 3.

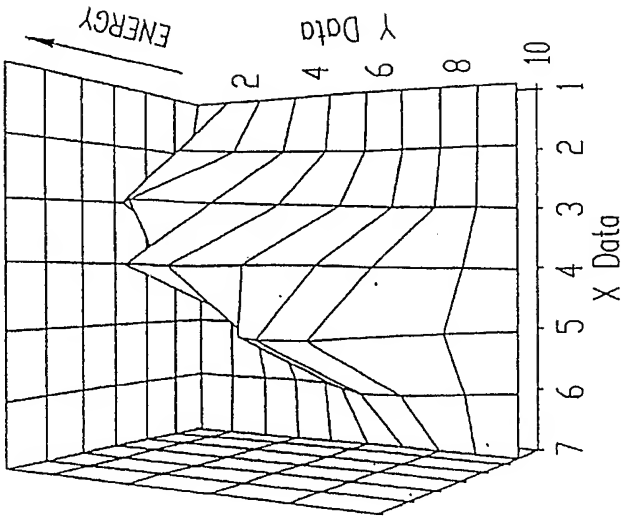
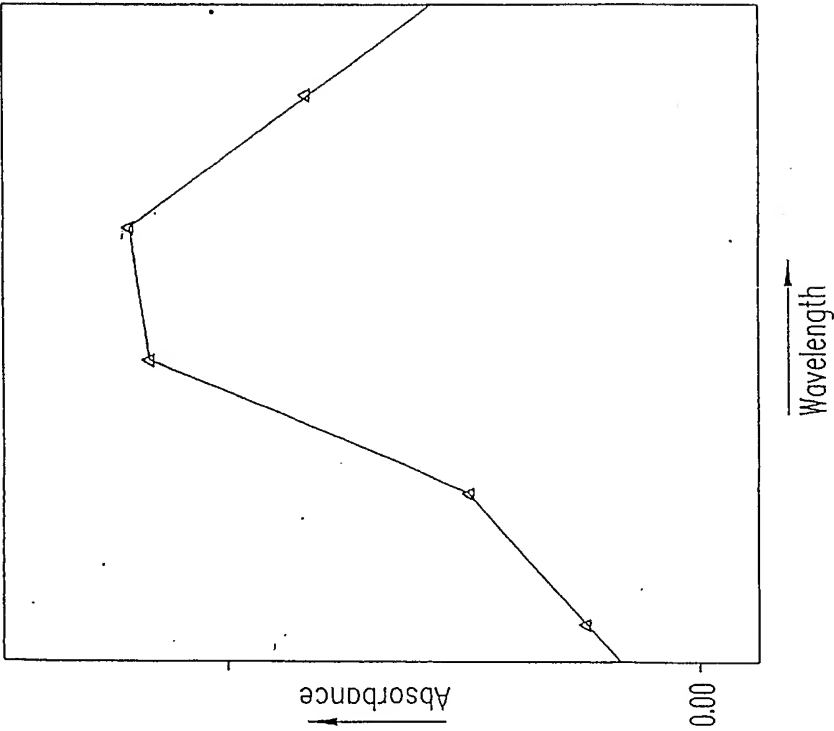
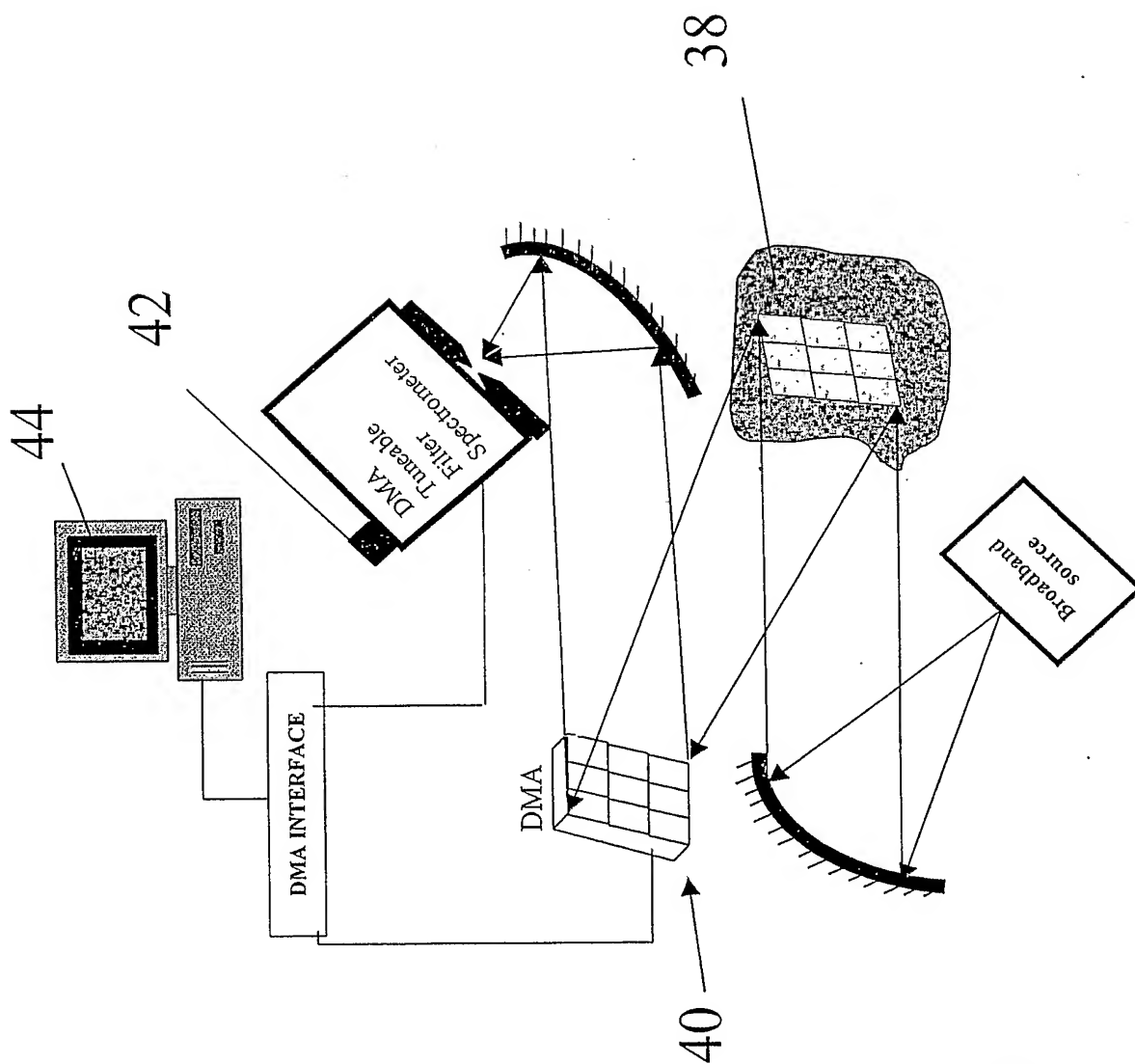


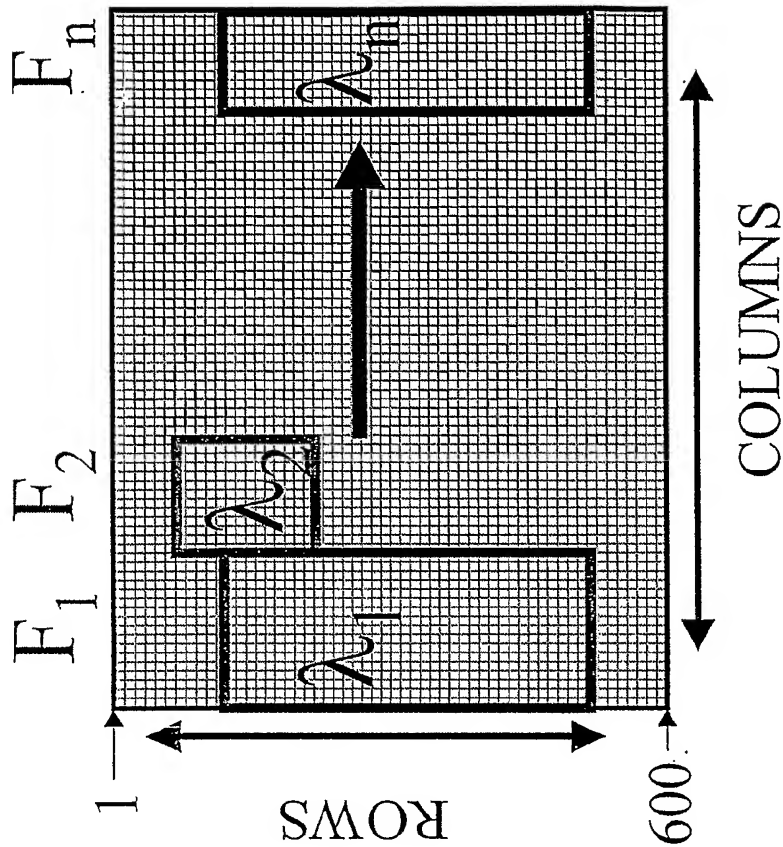
Fig. 5.

Fig. 4.



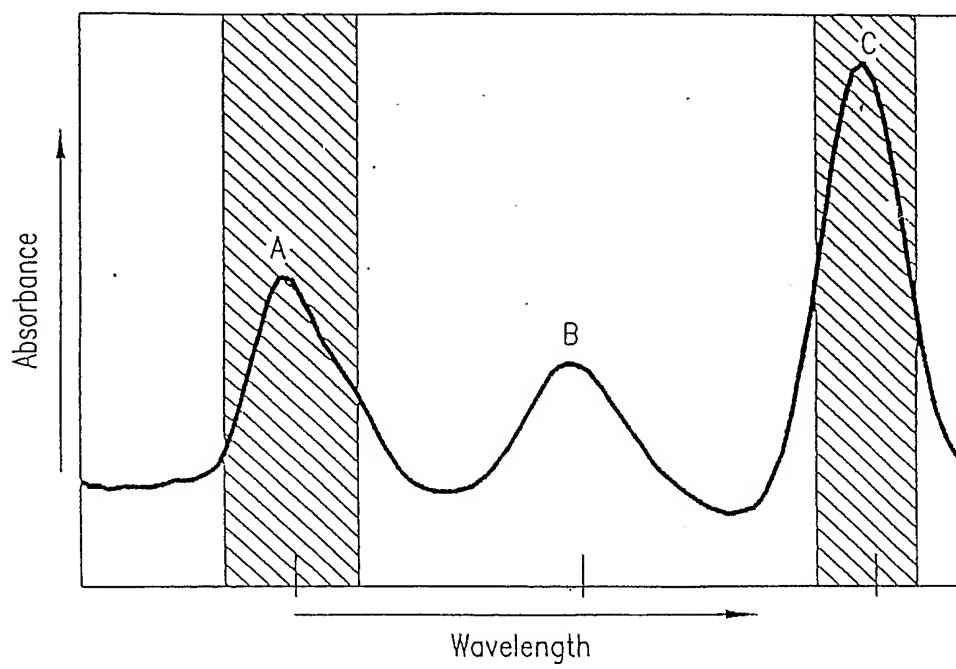
*Fig. 6*

The Focal Plane Of The NIR - DMA Imaging Spectrograph



ROWS \longrightarrow Spatial Resolution Elements
COLUMNS \longrightarrow Spectral Resolution Elements

Fig. 6.A

*Fig. 7.*

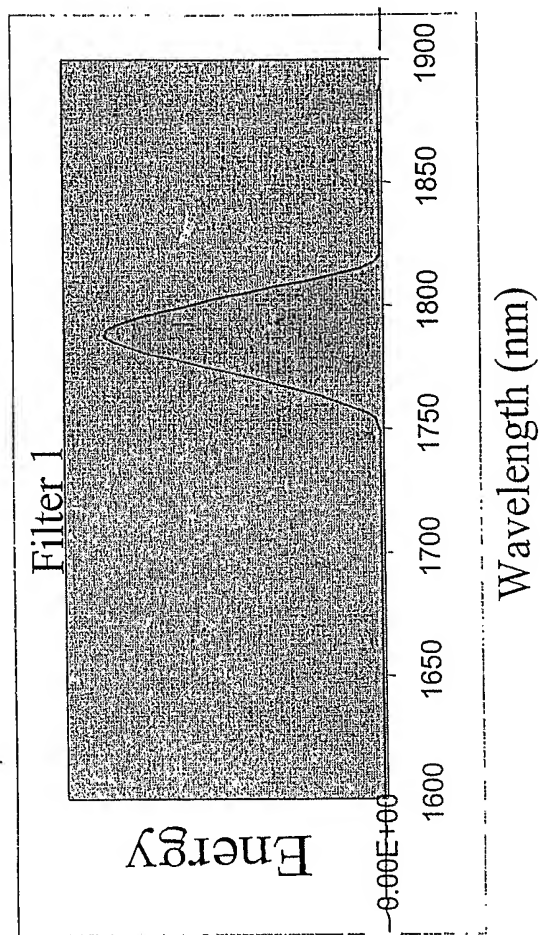
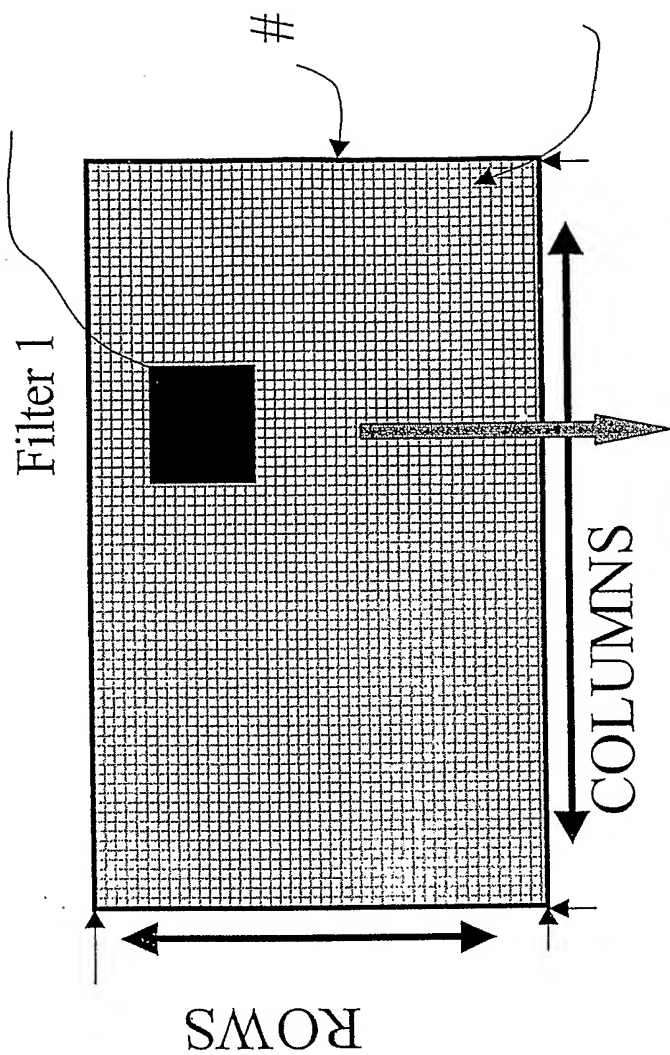


Fig. 8.

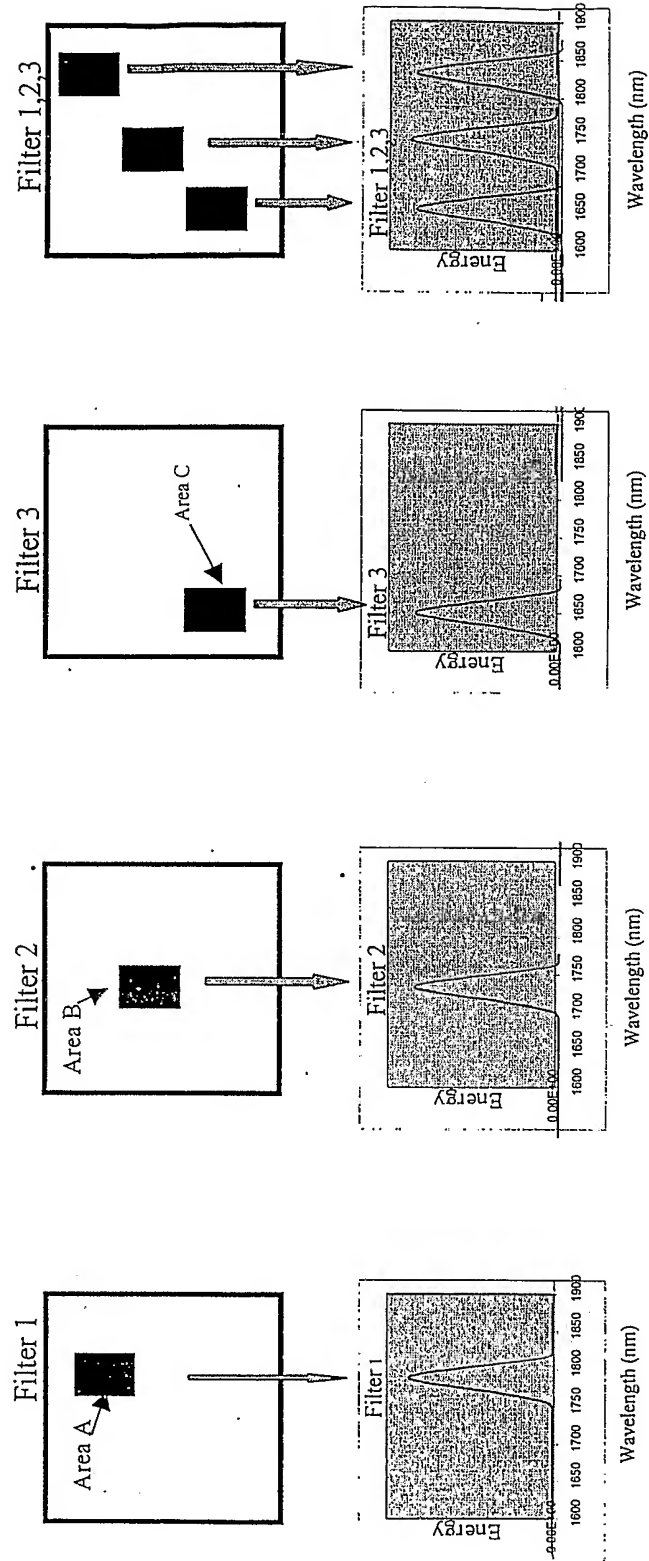


Fig. 9.

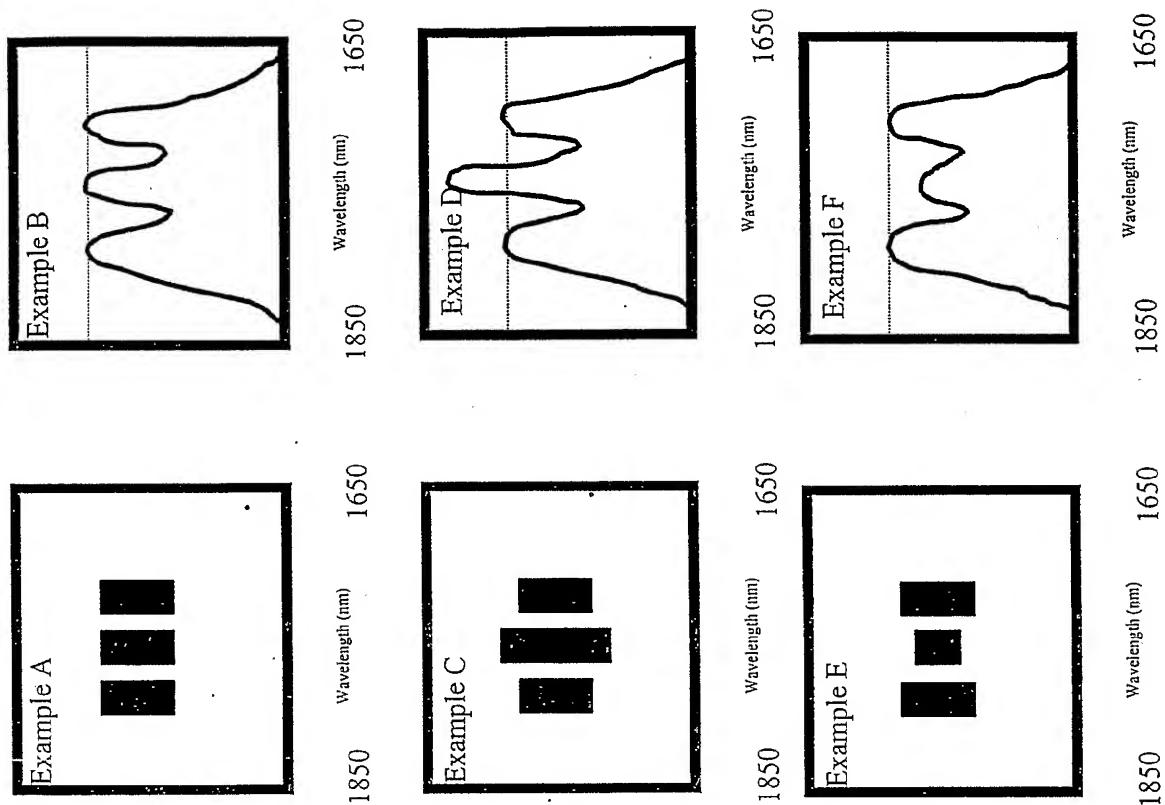


Fig. 10.

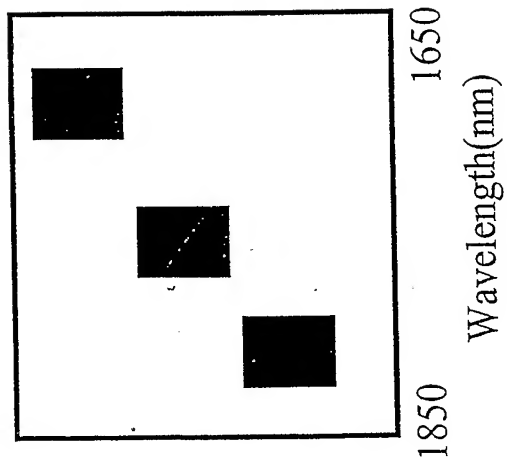


Fig. 11A

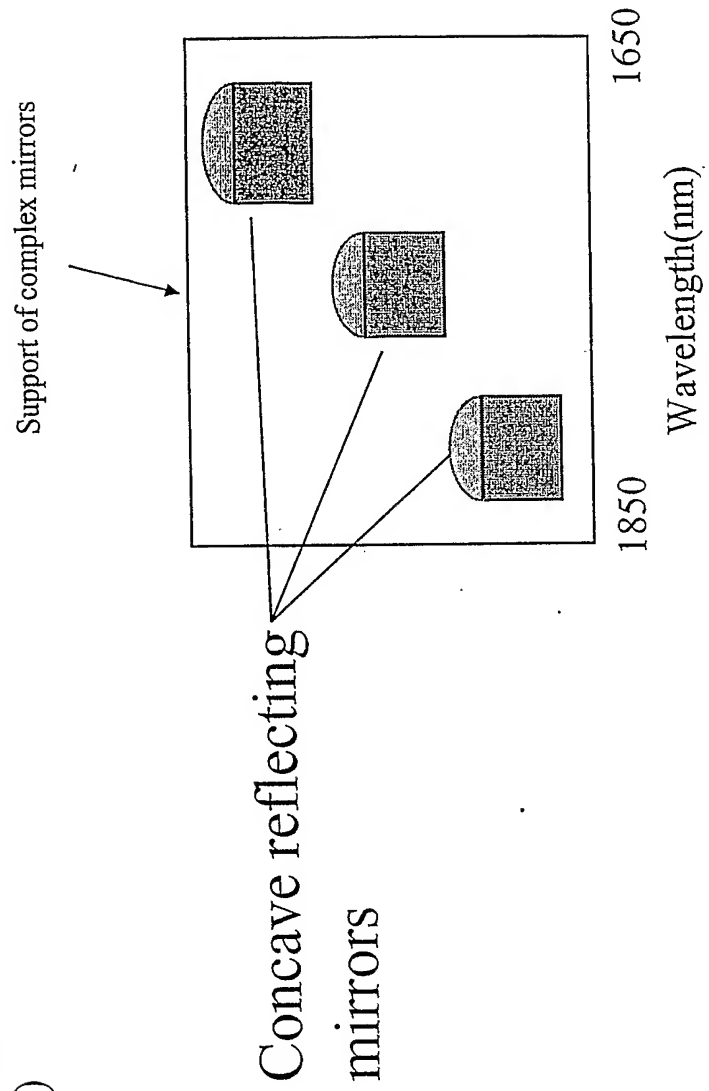


Fig. 11B.

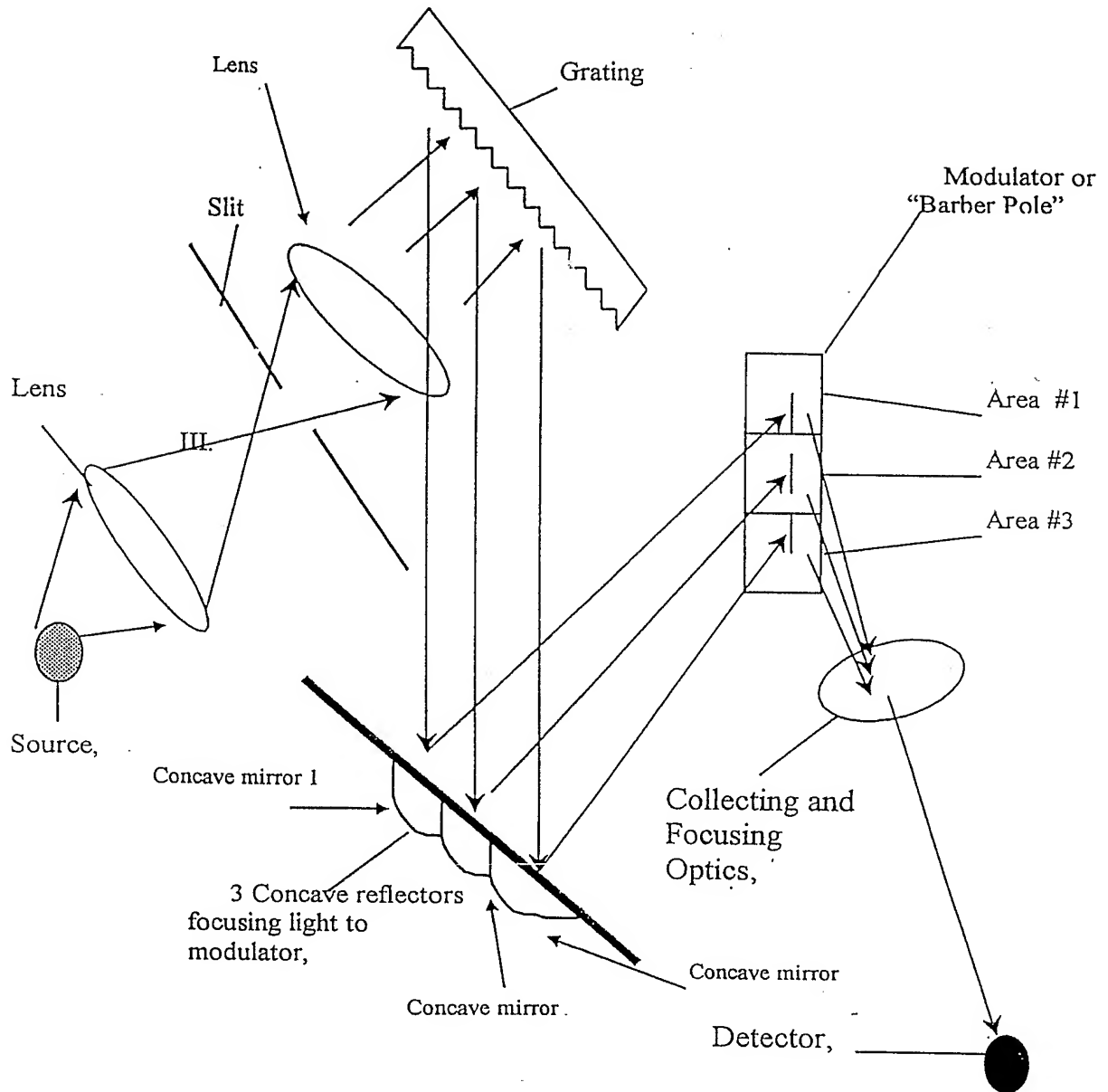


Fig. 12

Filter Spectrometer

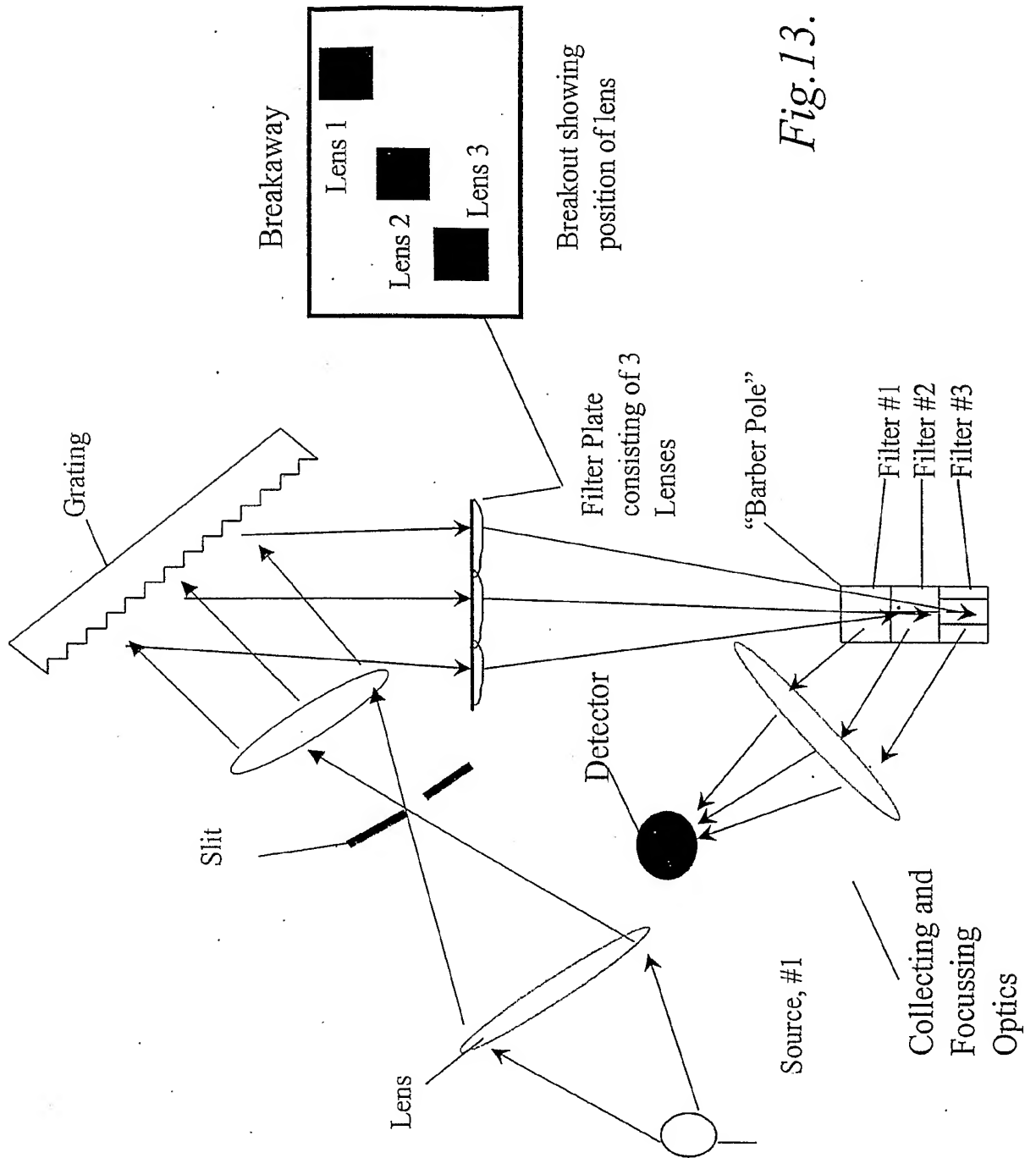
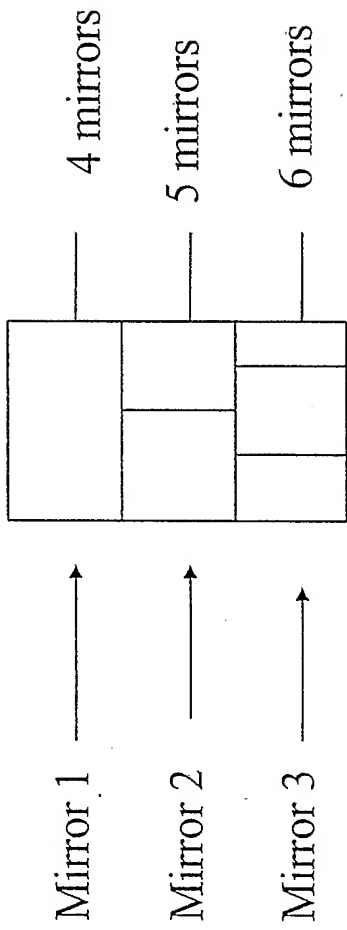


Fig. 13.

Side View of Modulator



Top View of Modulator

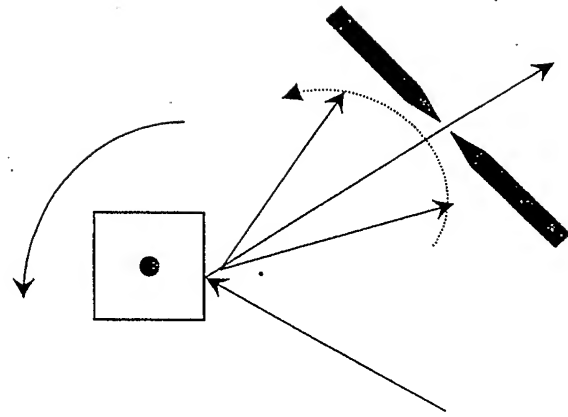


Fig. 14.

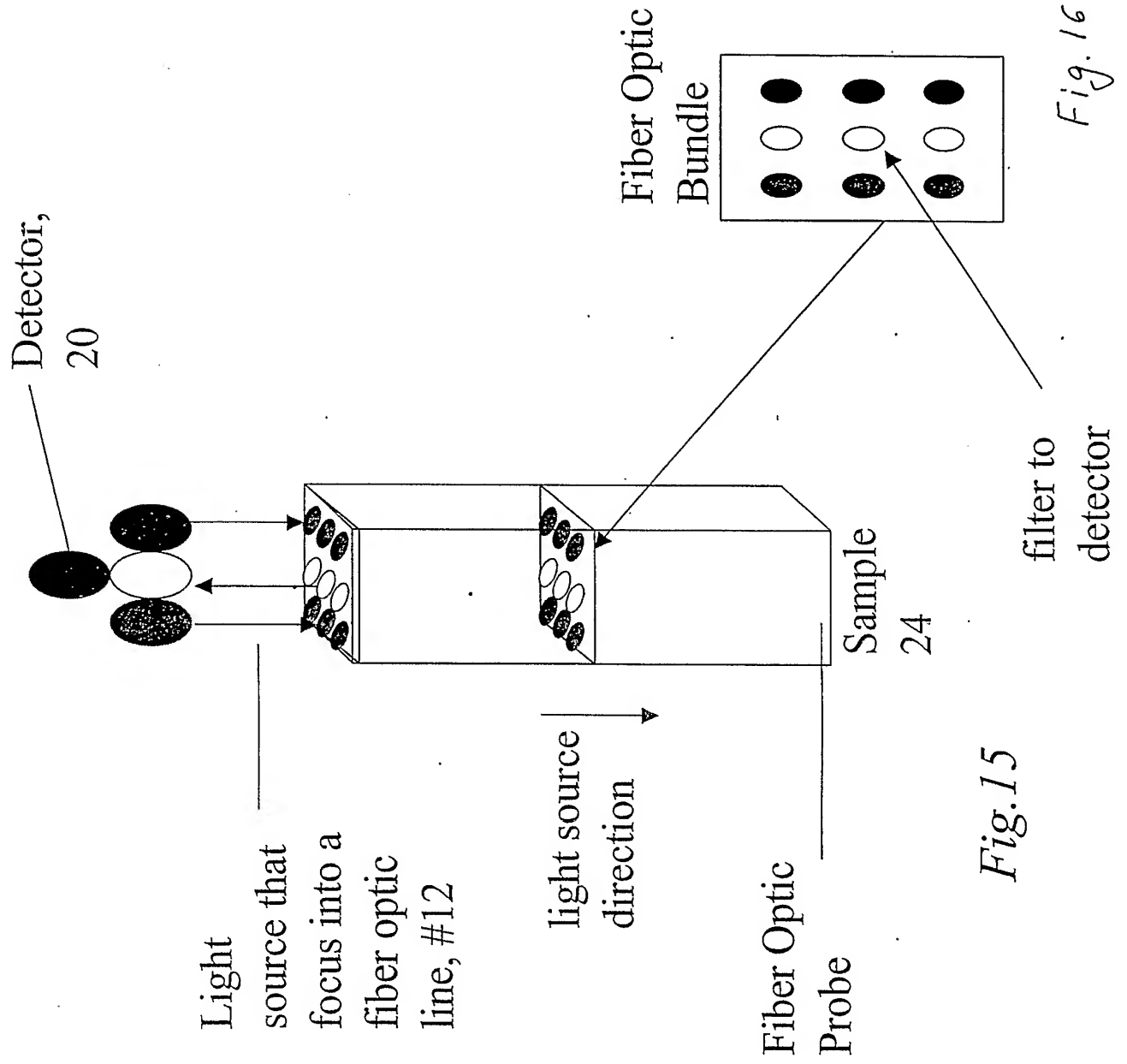


Fig. 15

Fig. 16

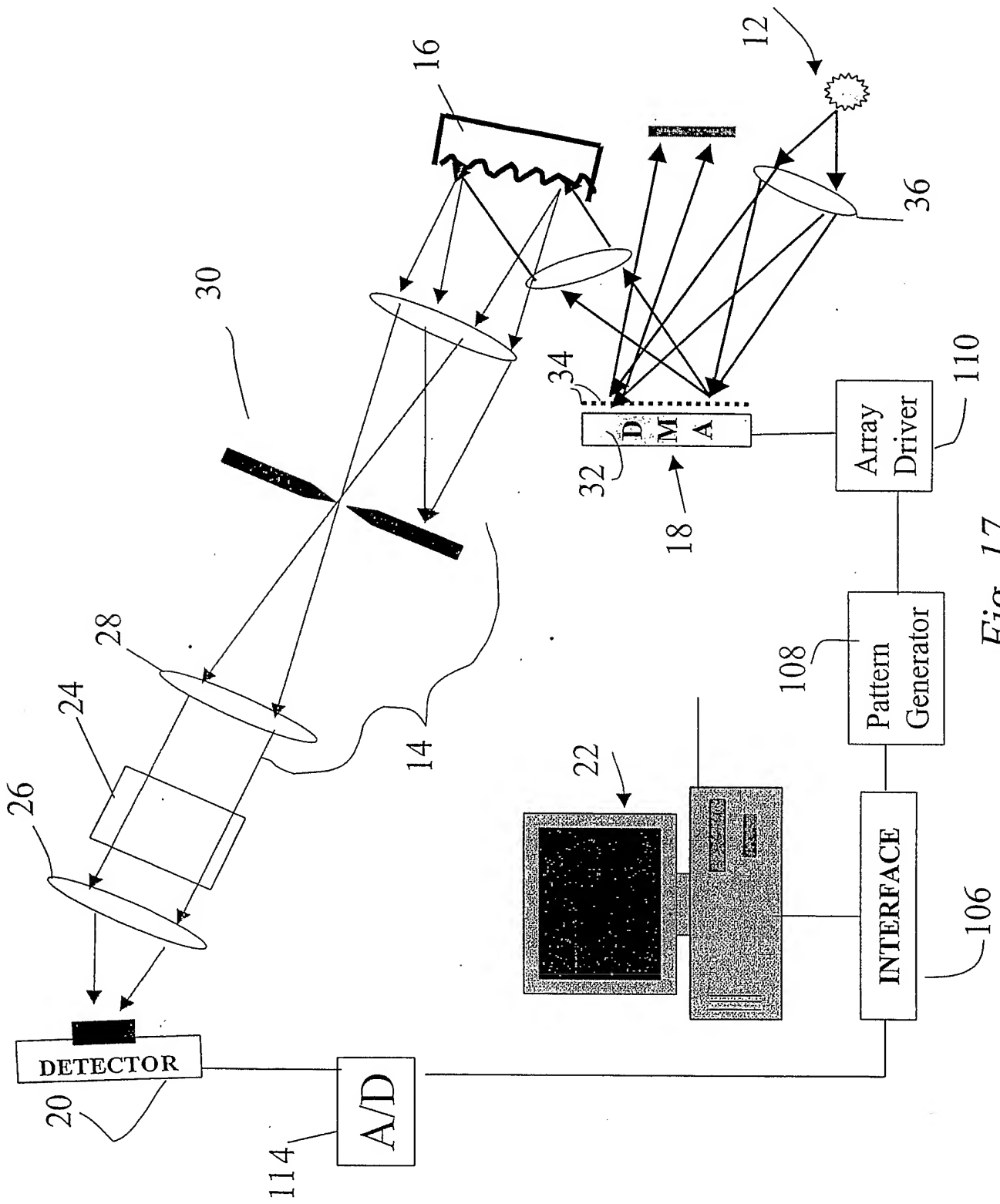


Fig. 17.

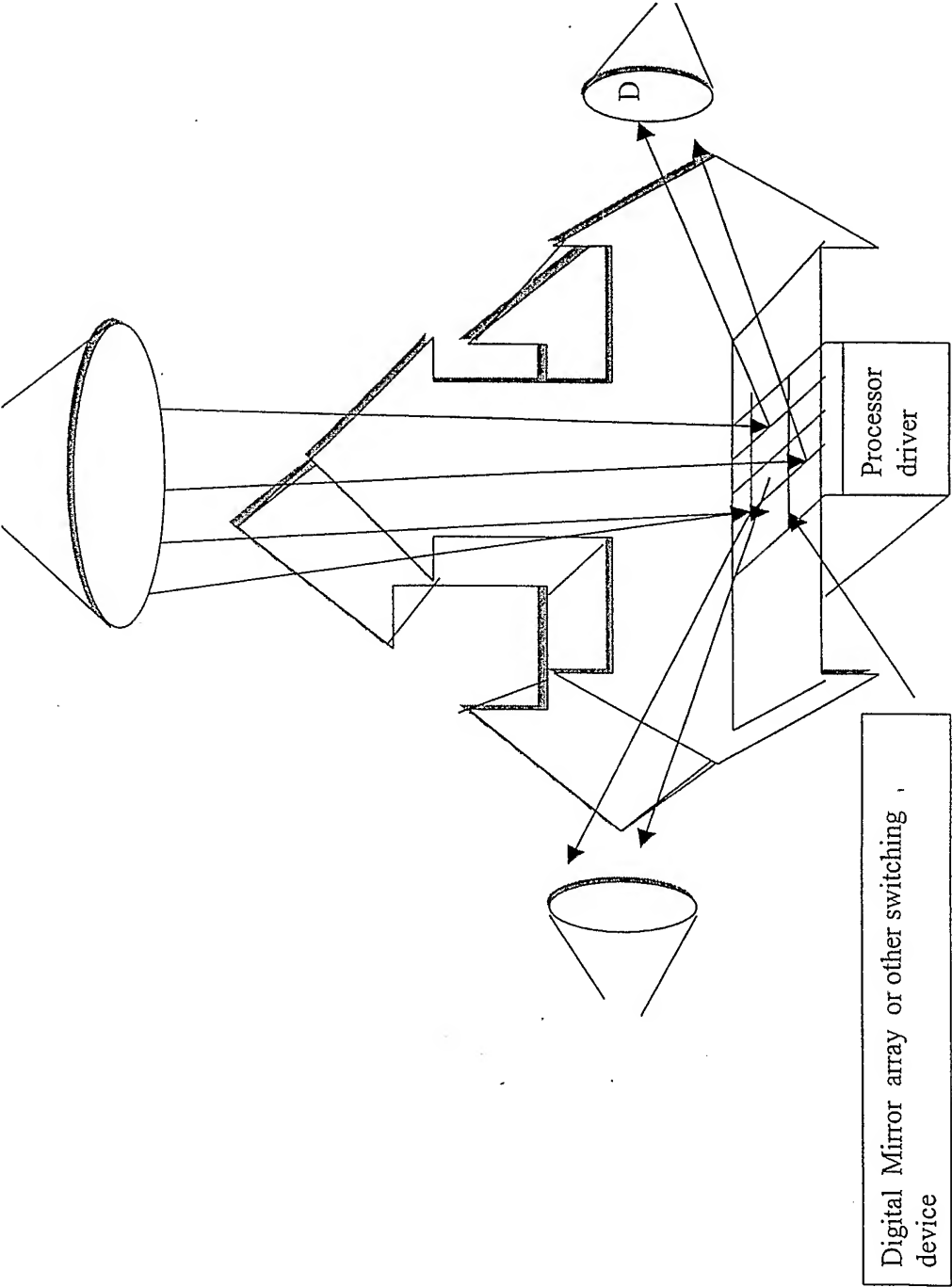


Fig. 18A.

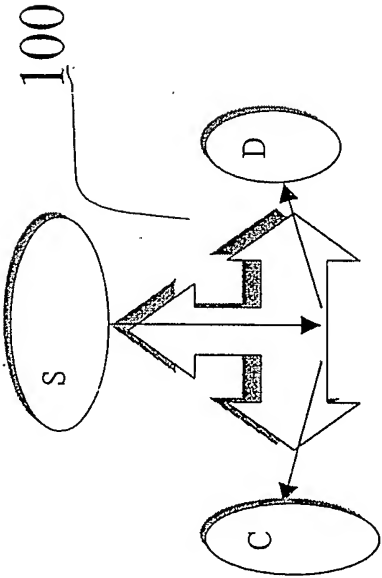


Fig. 18B

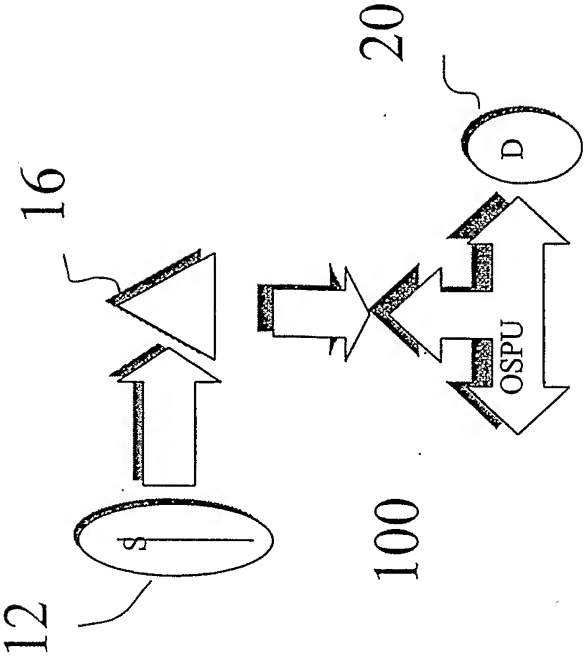
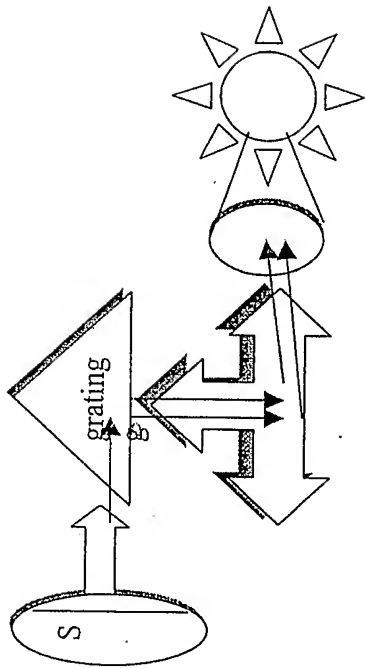


Fig. 19



Light mixing

Fig. 20.

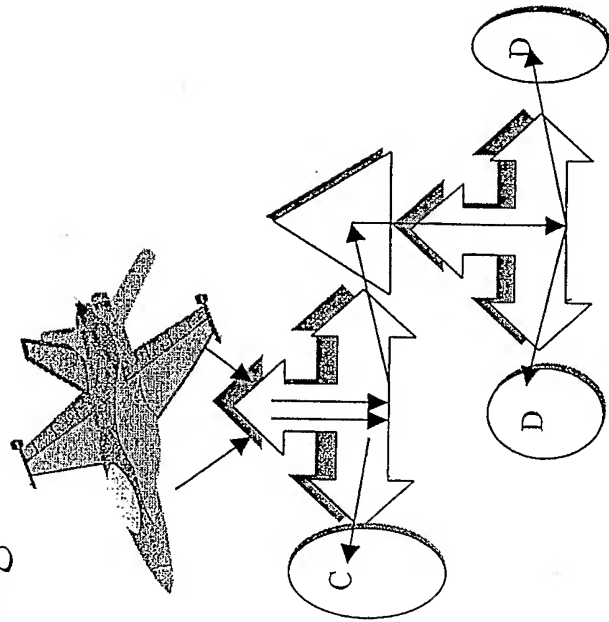


Fig. 21.

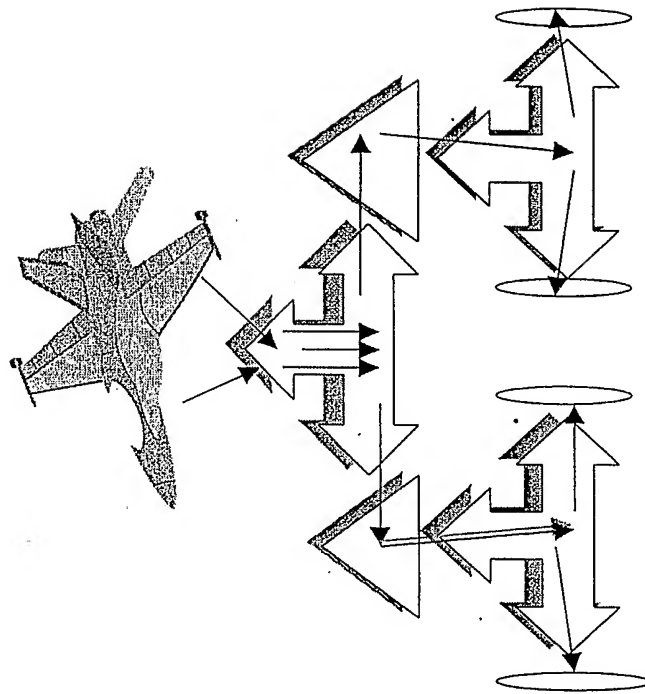


Fig. 22.

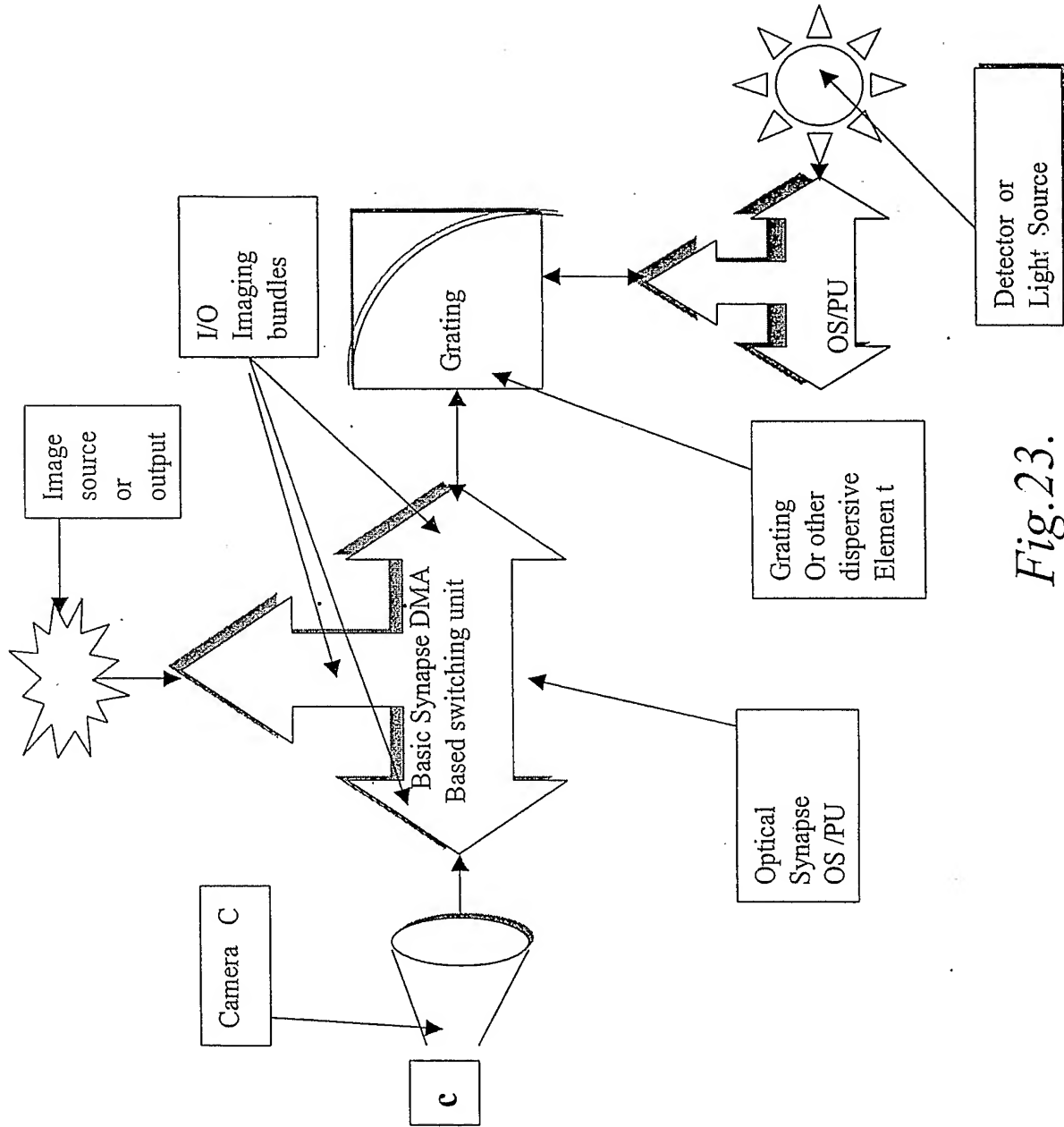
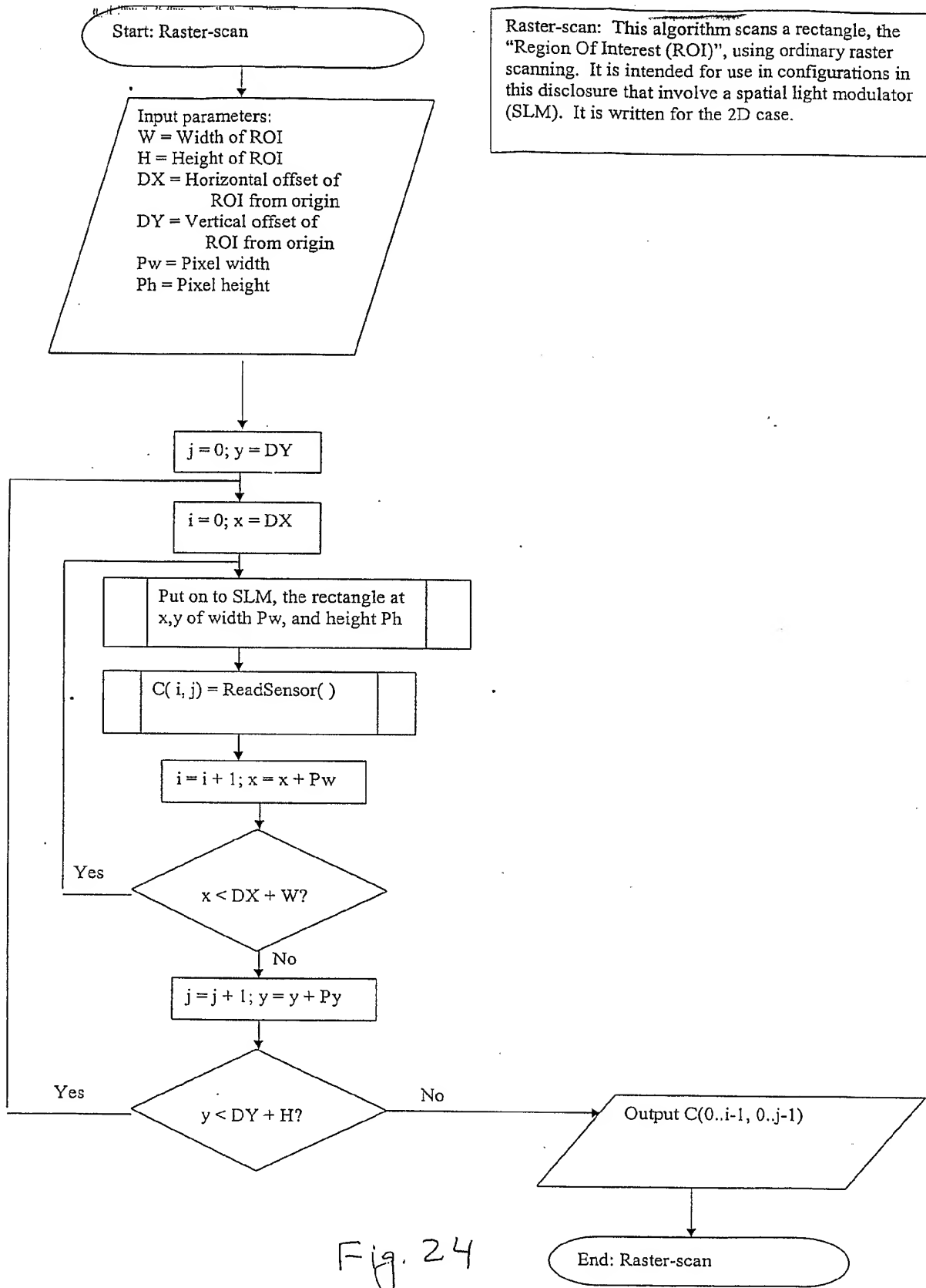
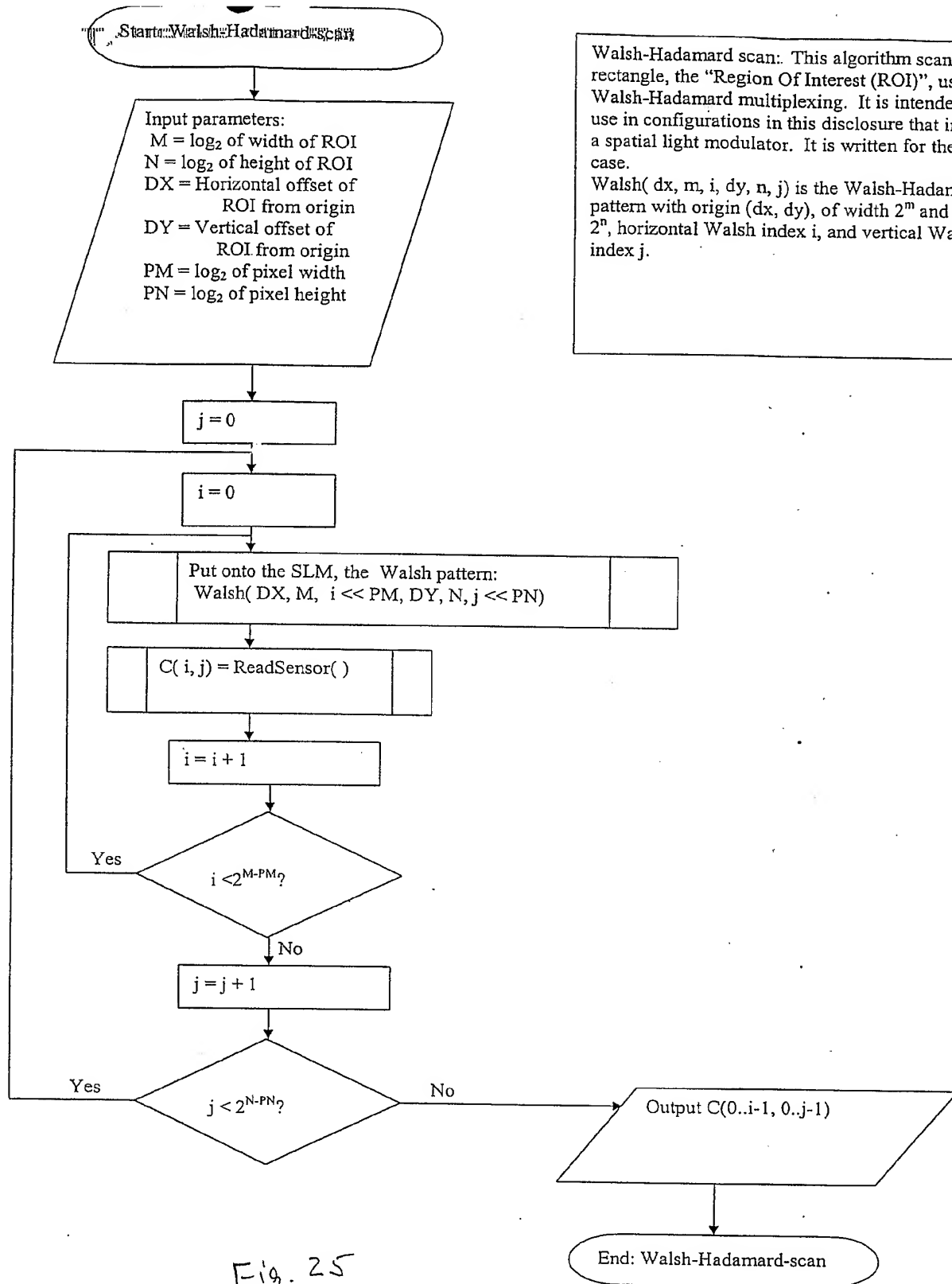


Fig.23.





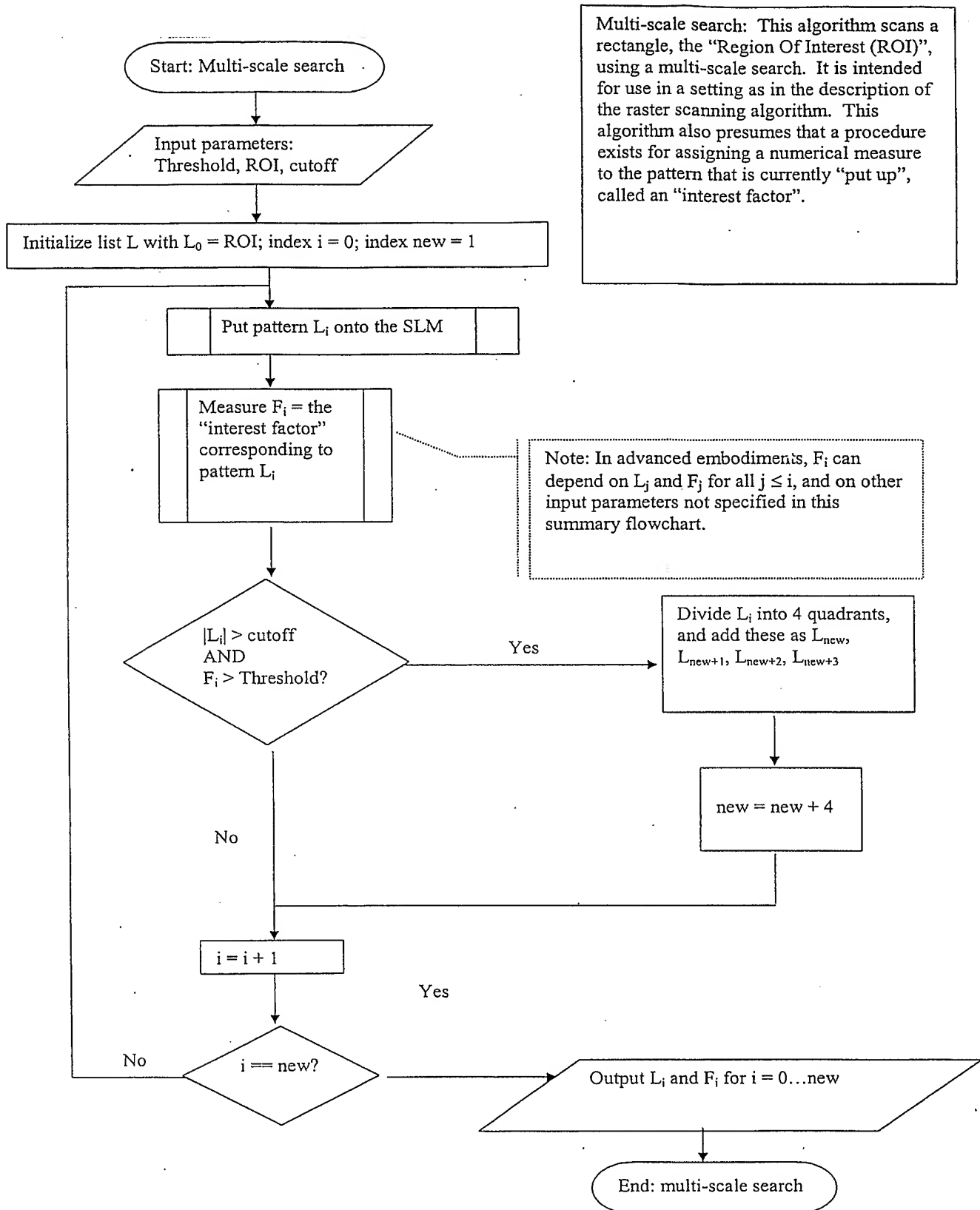


Fig. 26

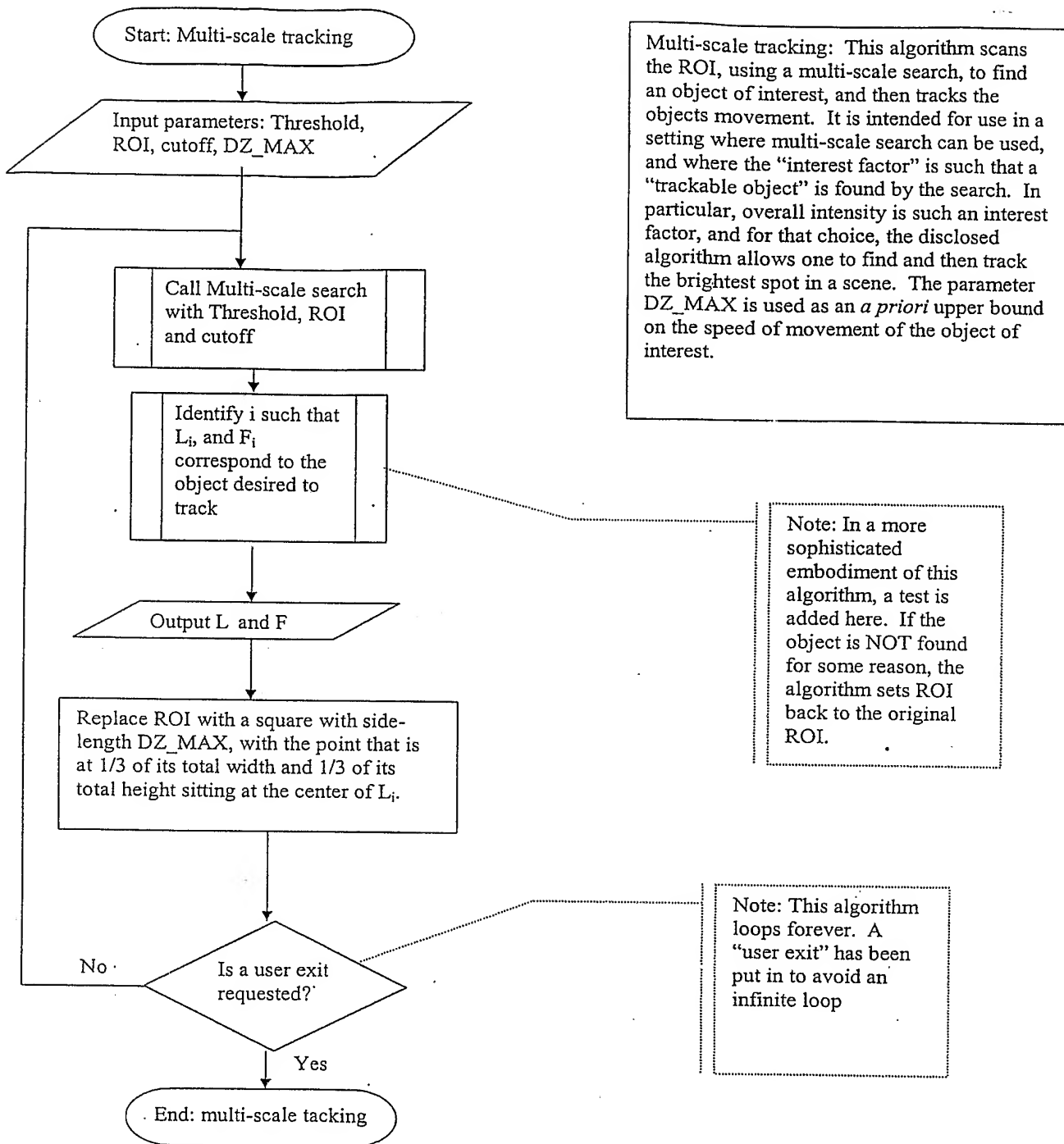


Fig. 26 A

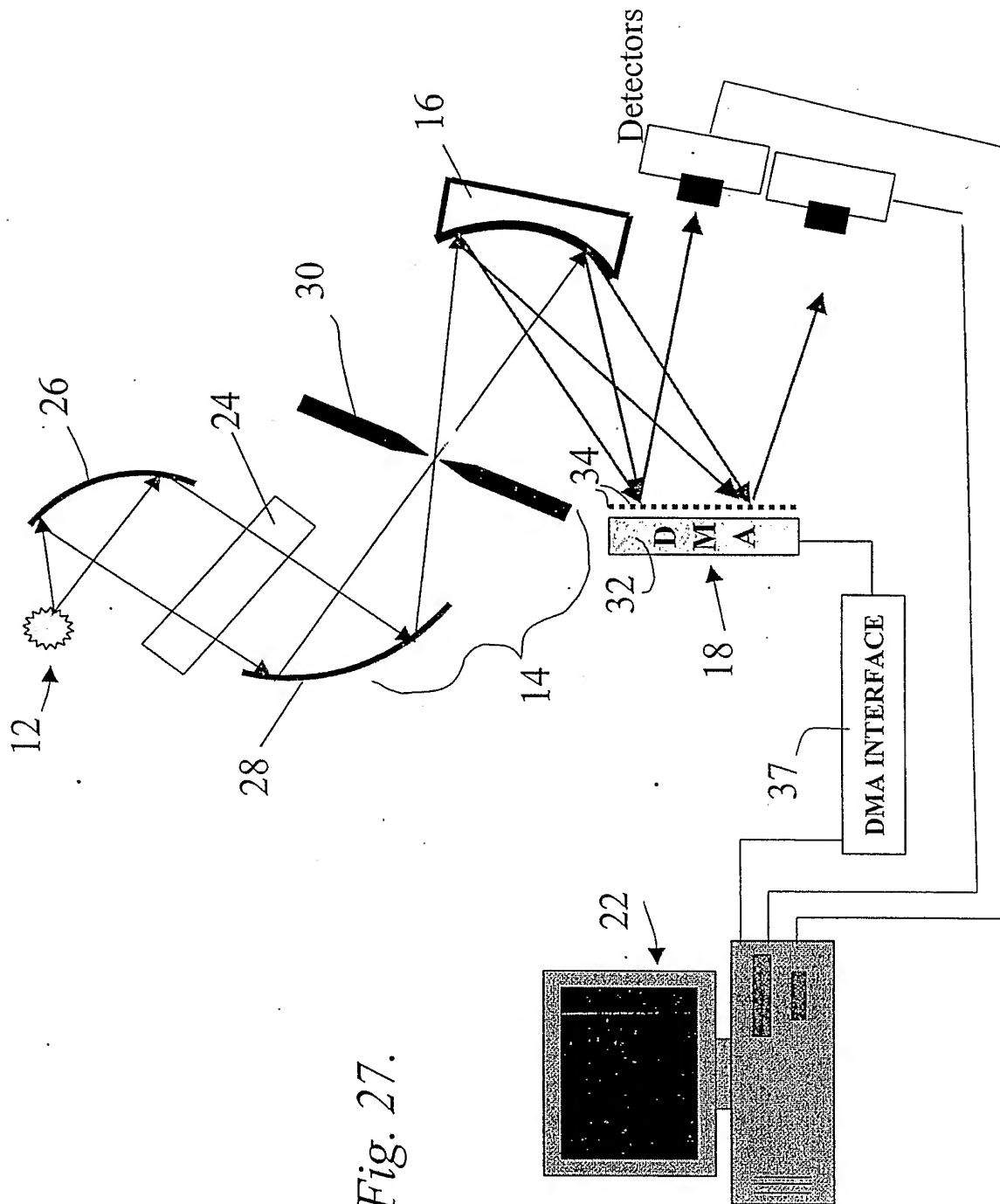


Fig. 27.

Walsh packet Library of patterns of 0,1,-1
All 24 patterns for 8 points.

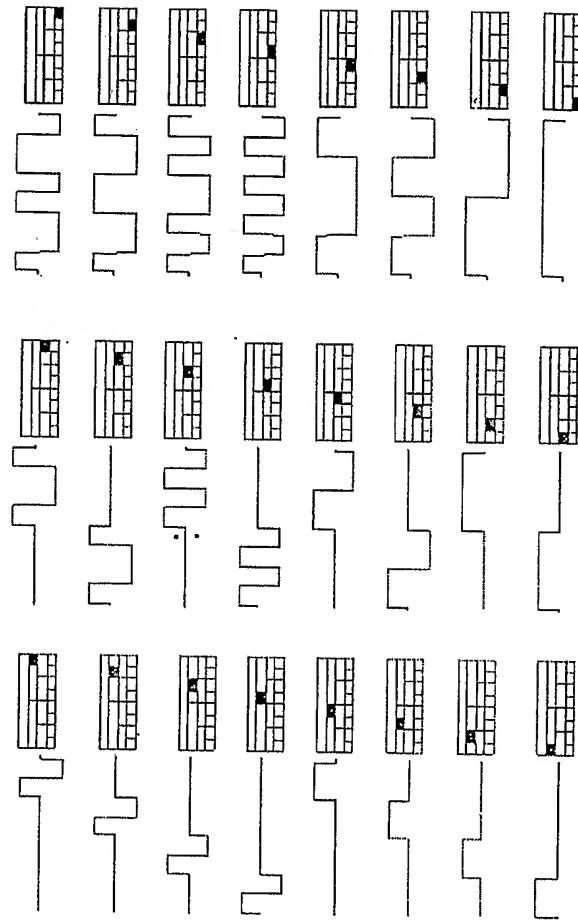


Fig.28.

Modular fiber optic sensor system

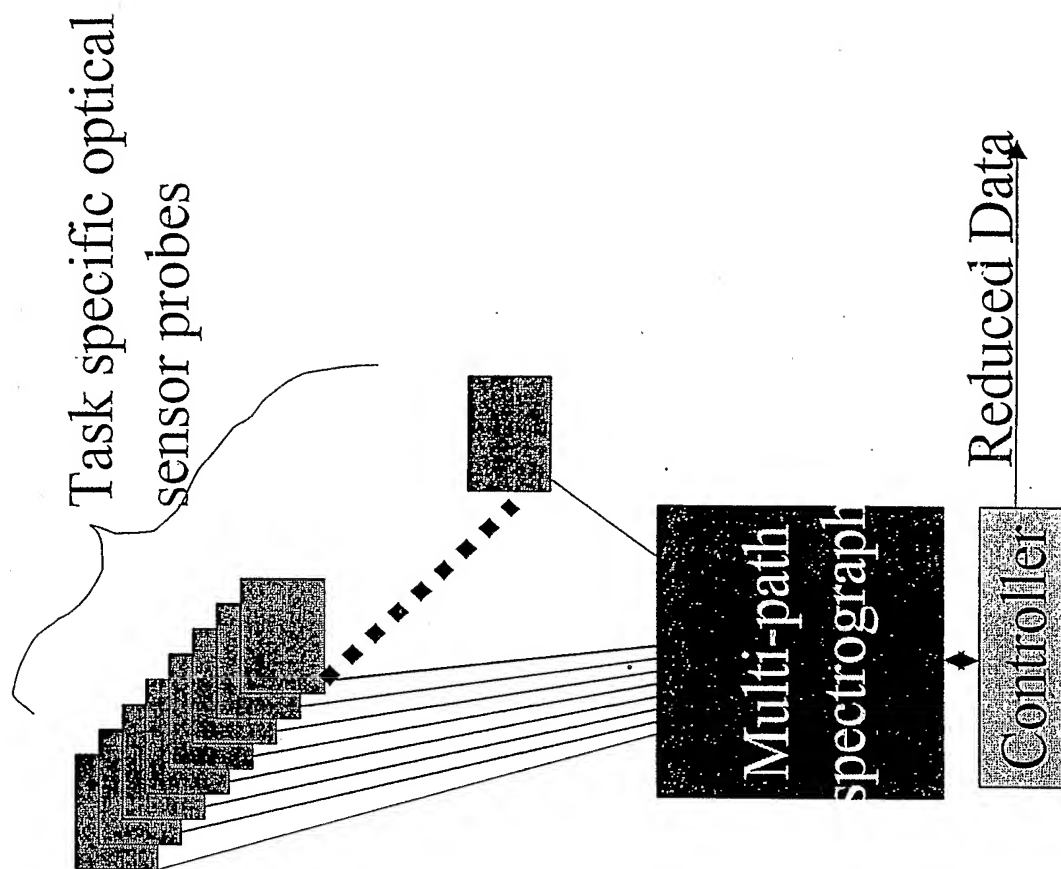


Fig. 29.

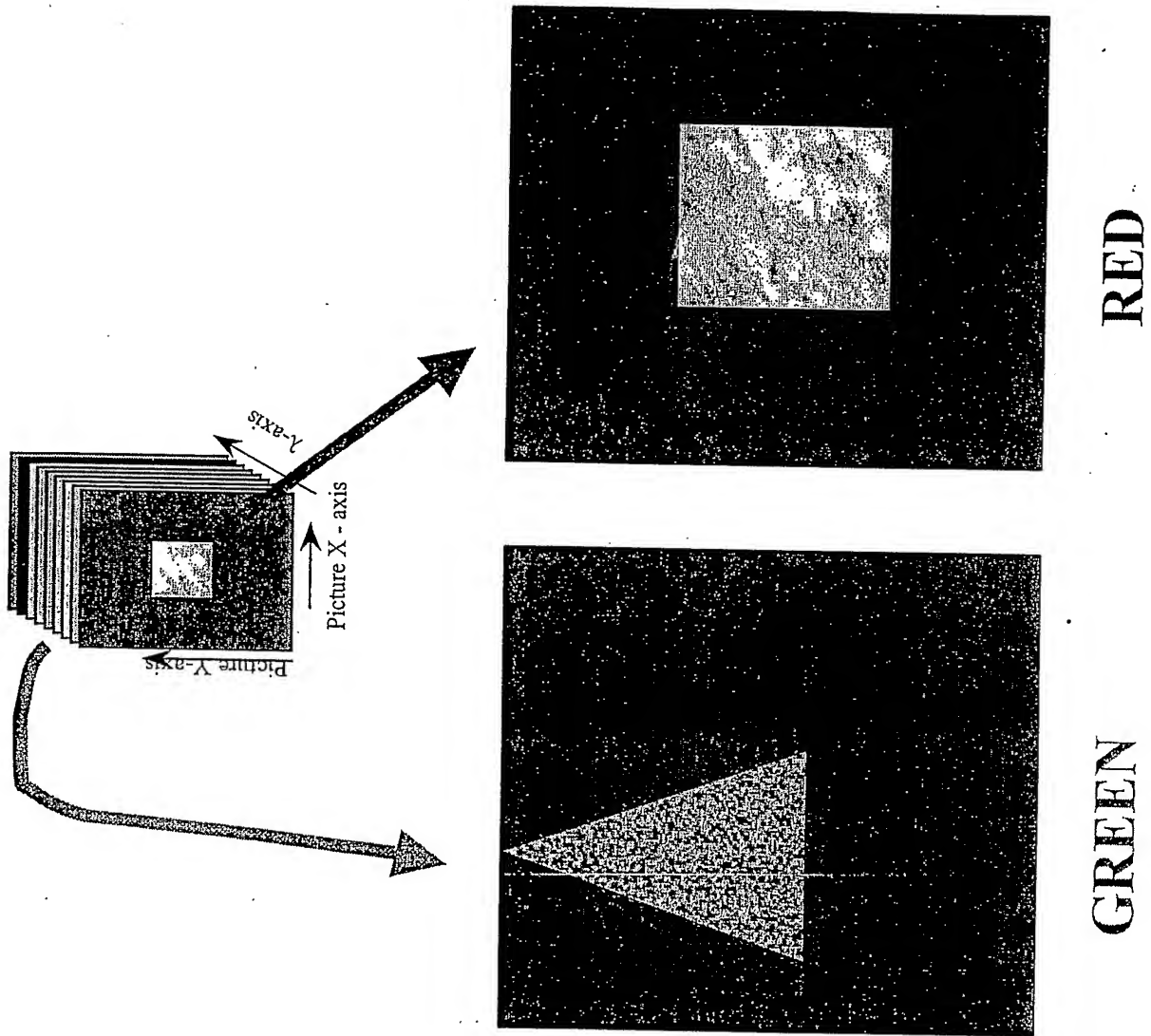
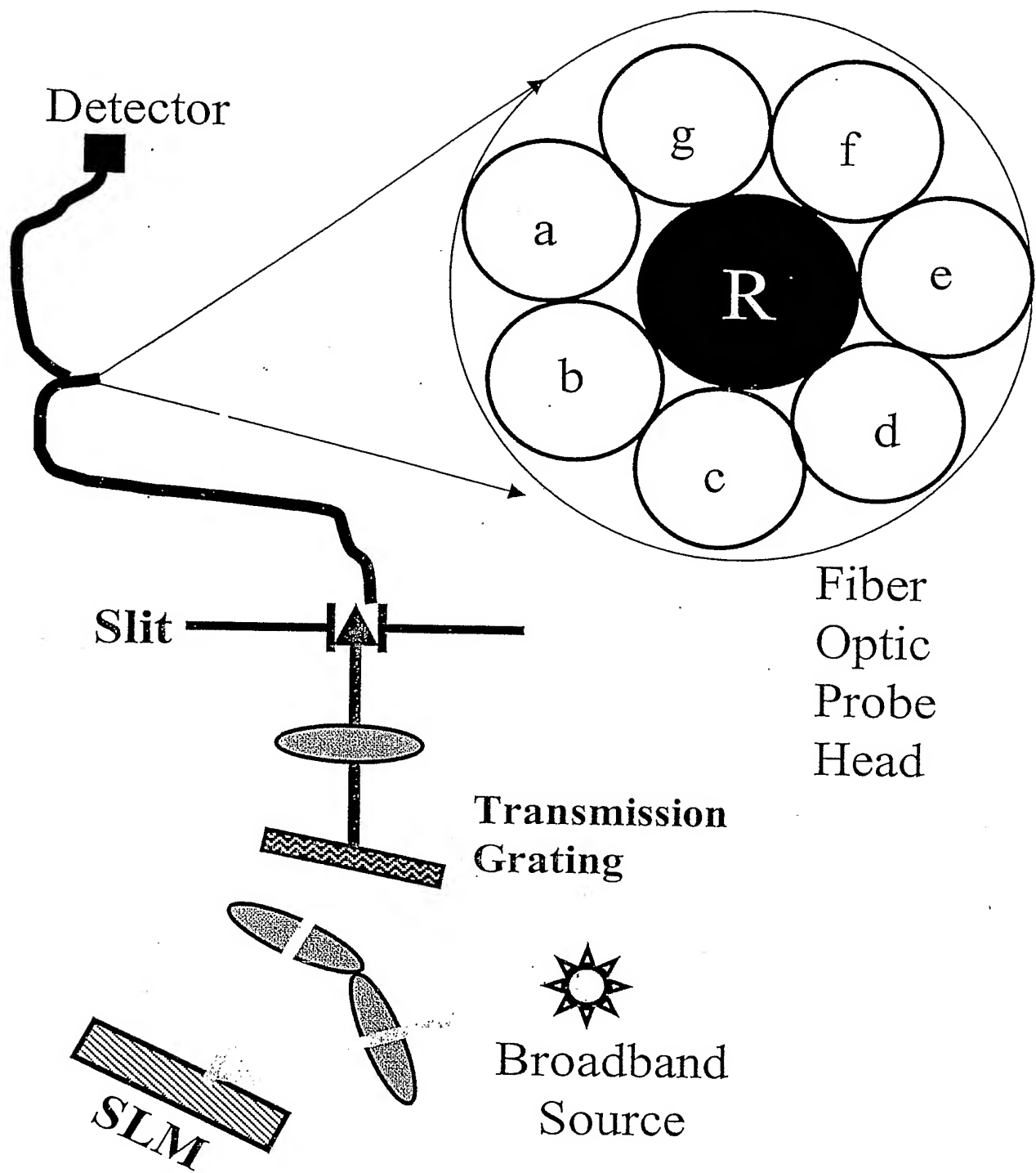
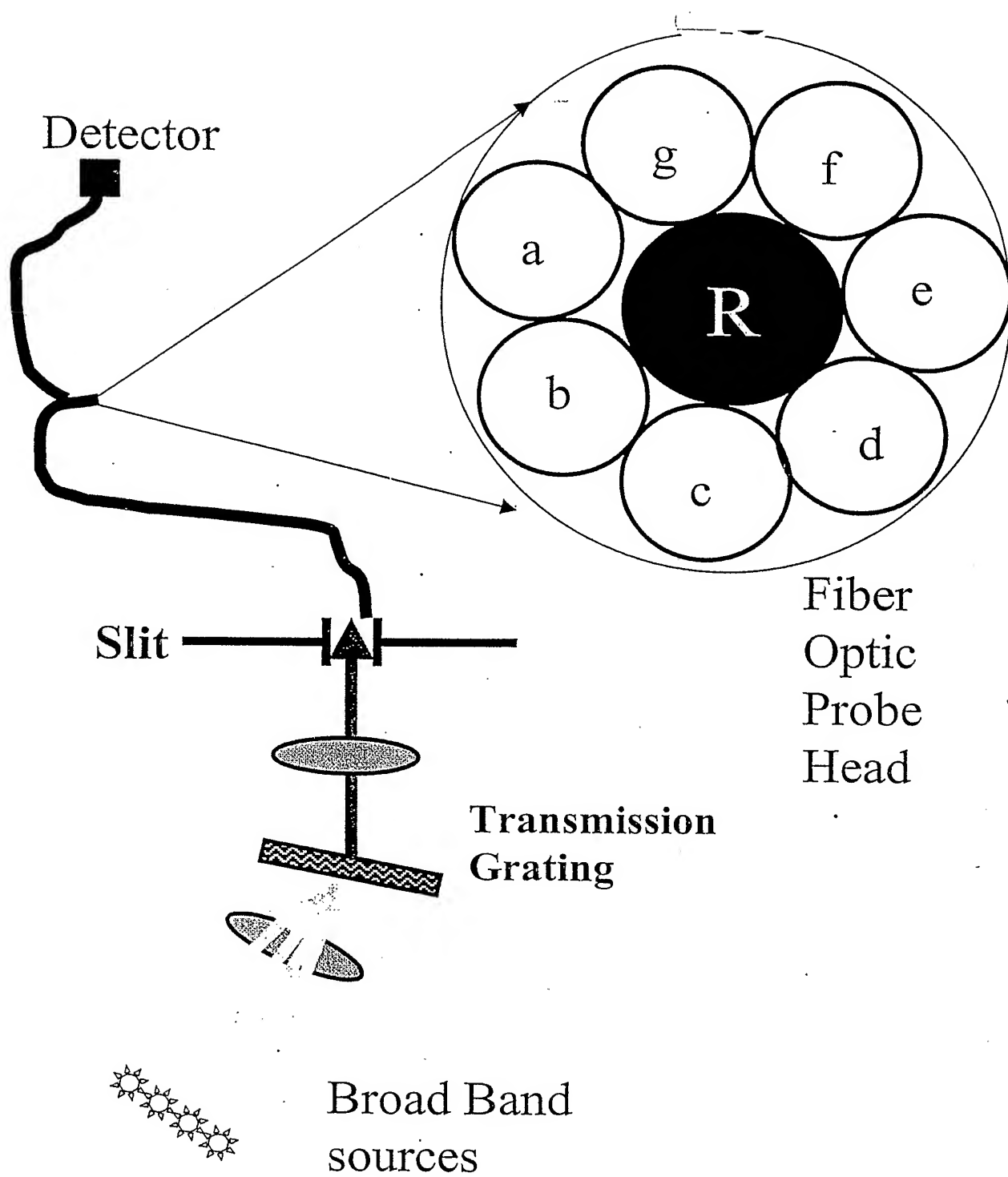
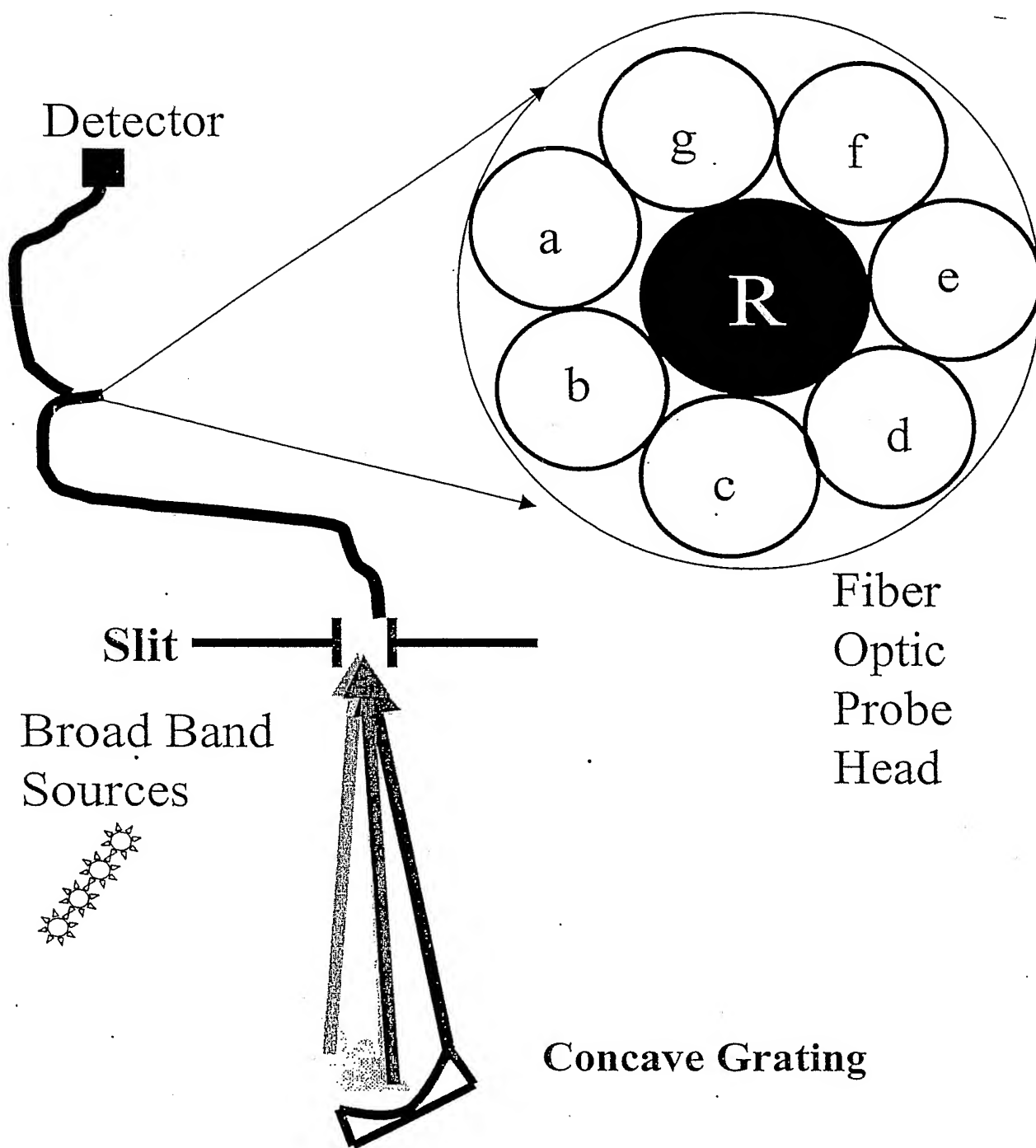
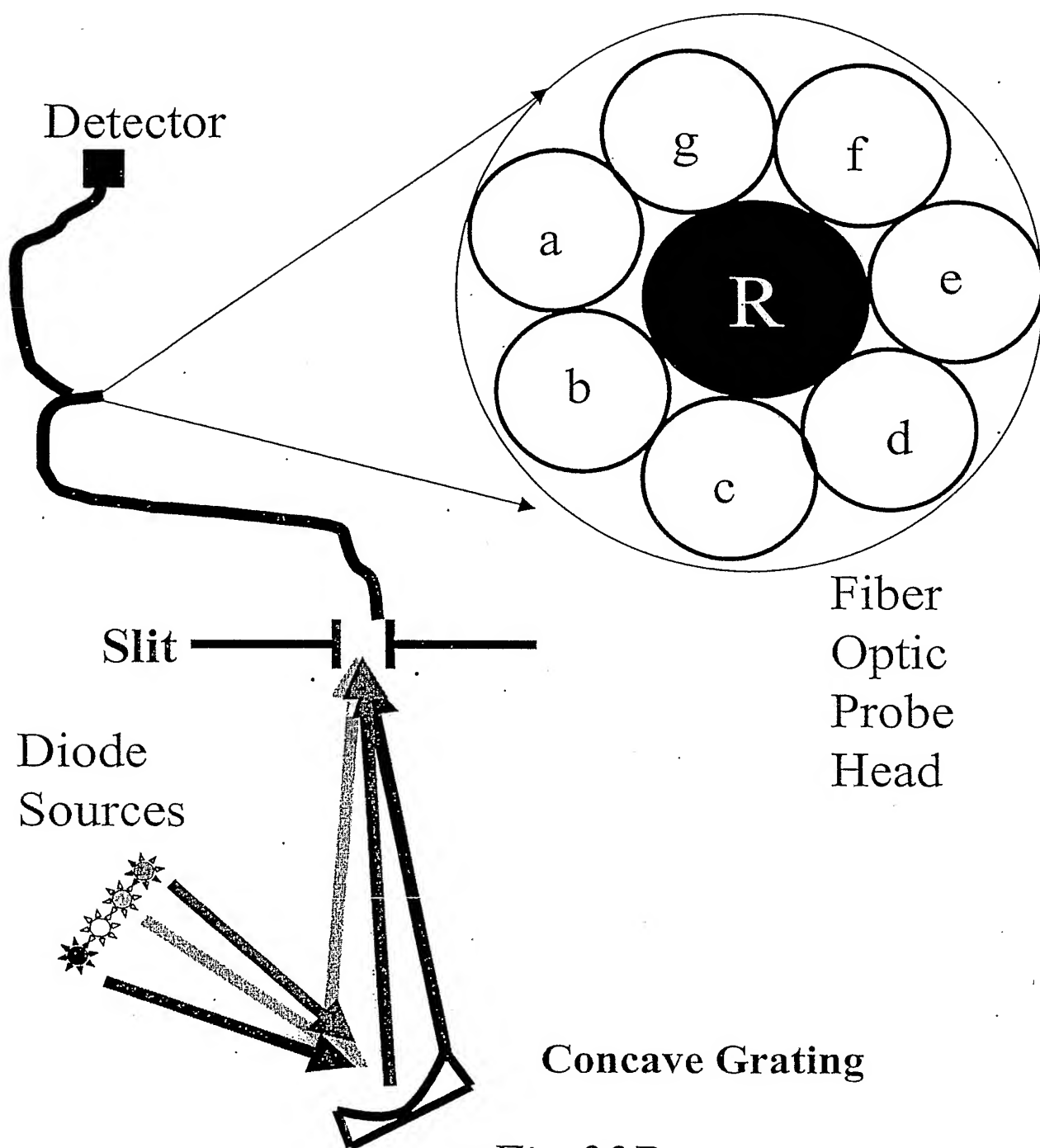


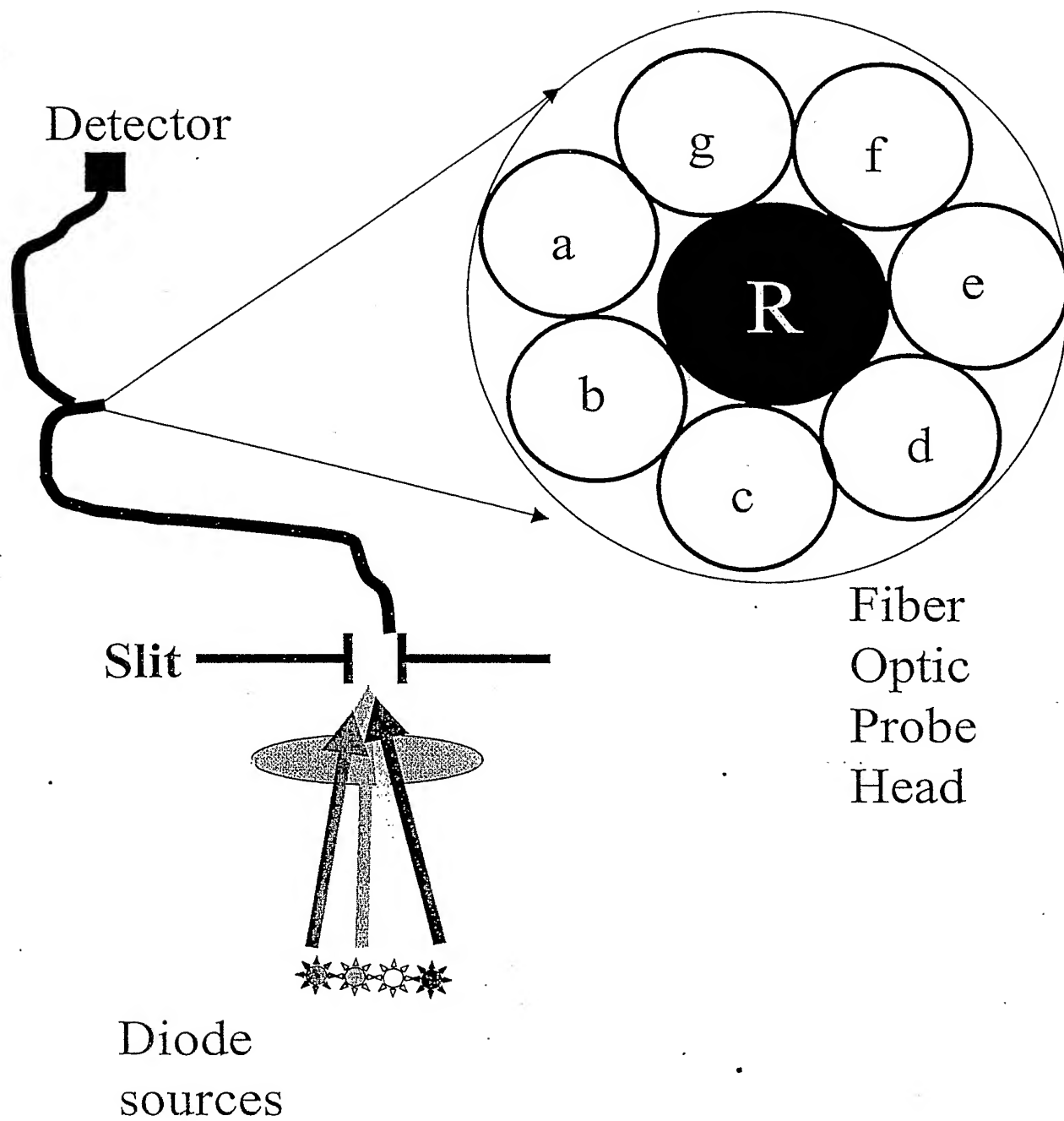
Fig.30

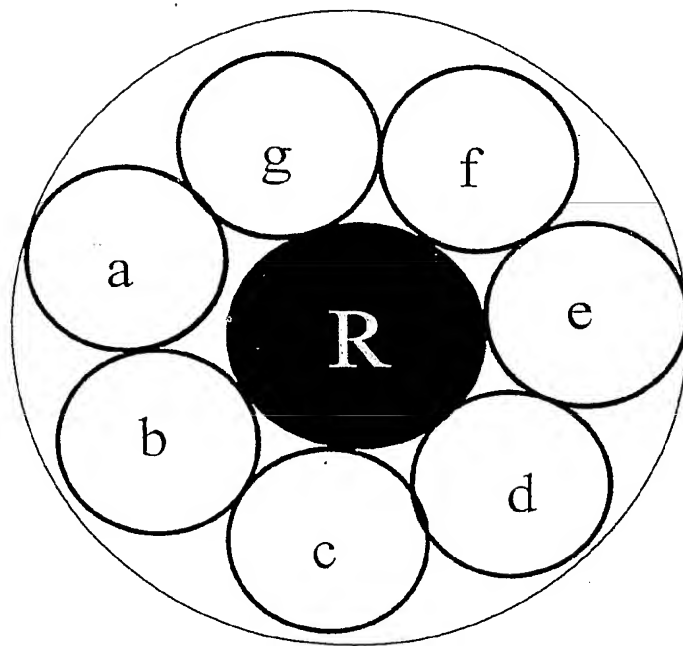
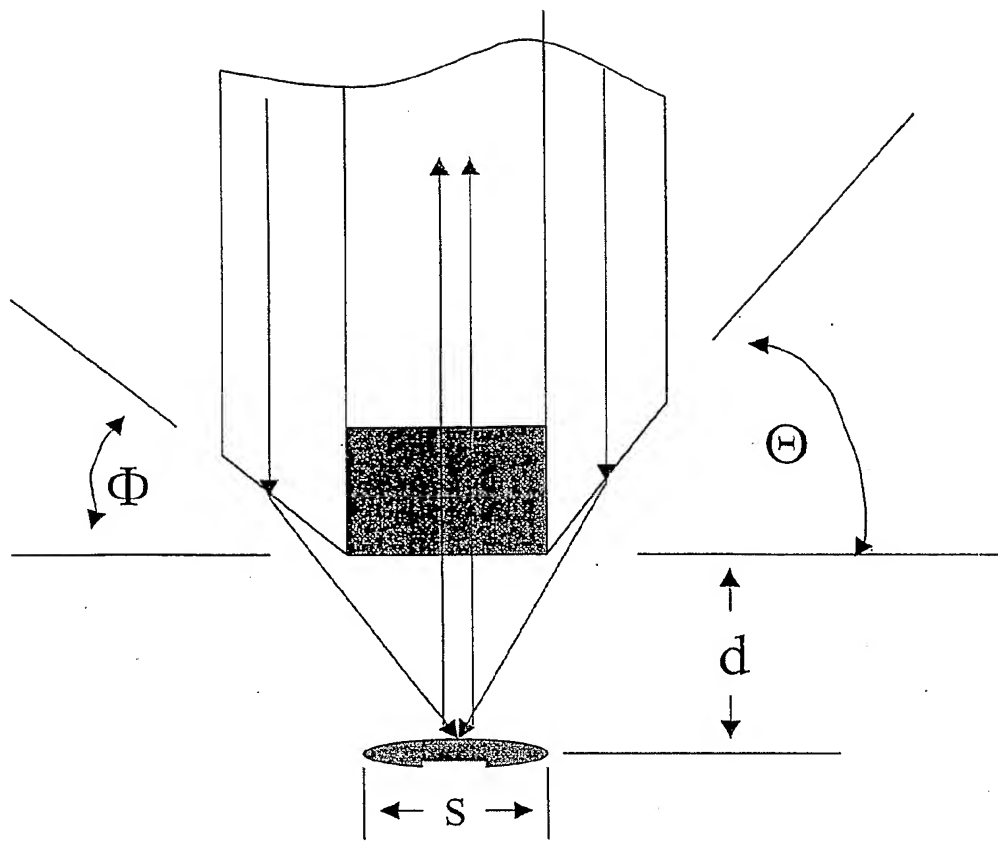
*Fig.33A*

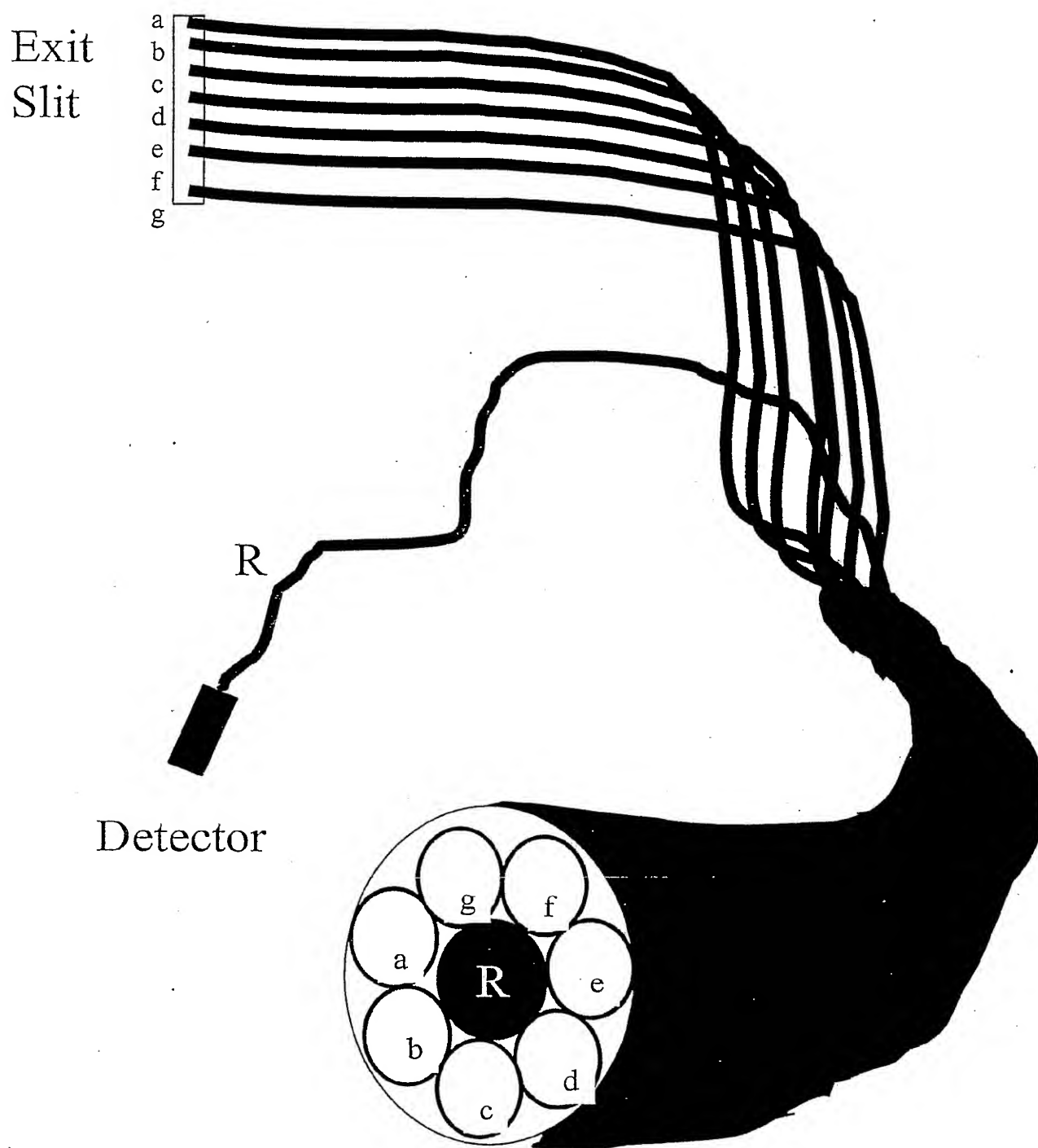
*Fig.33B*

*Fig.33C*

*Fig.33D*

*Fig.33E*

*Fig.34*

*Fig.35*

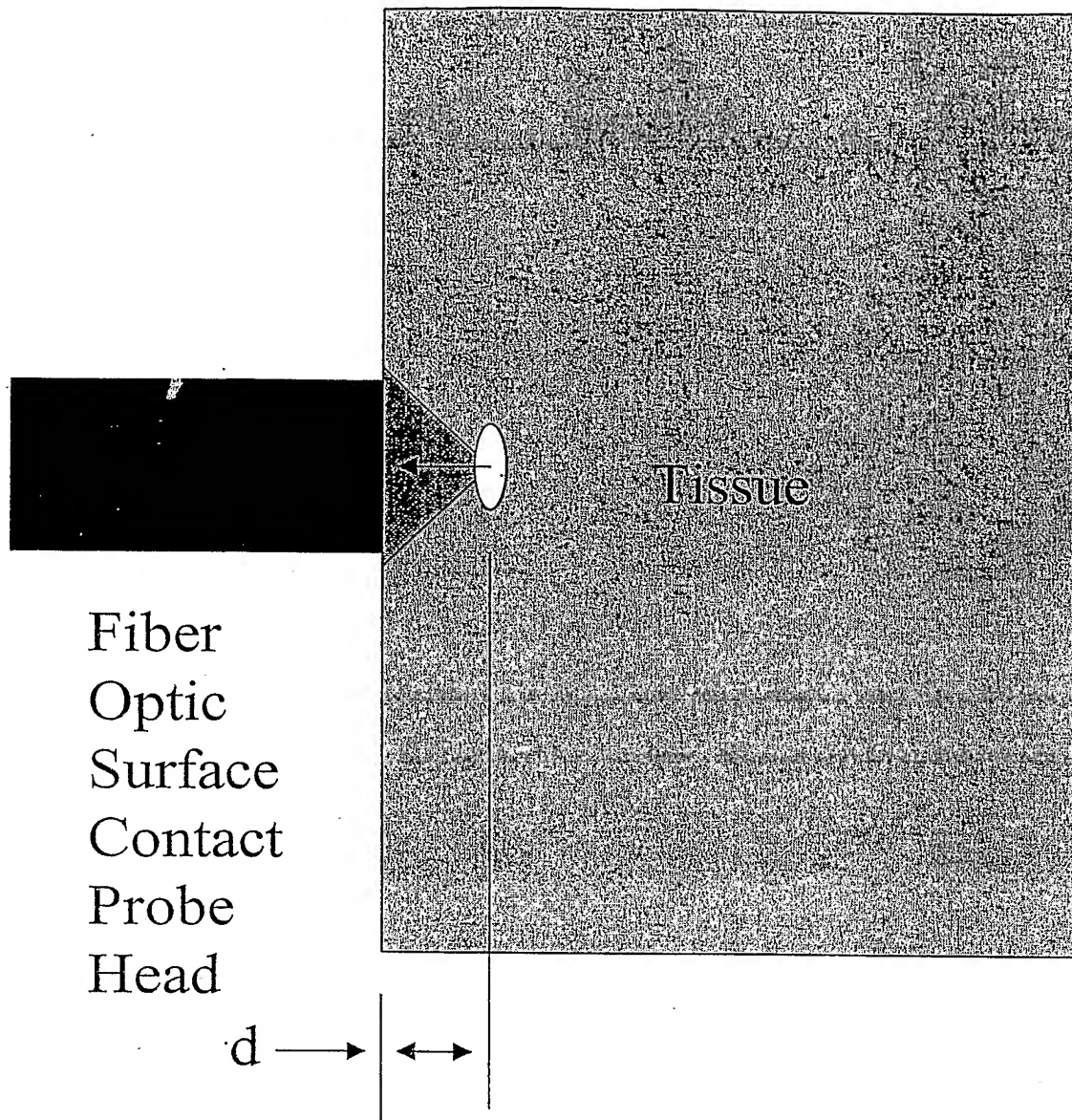
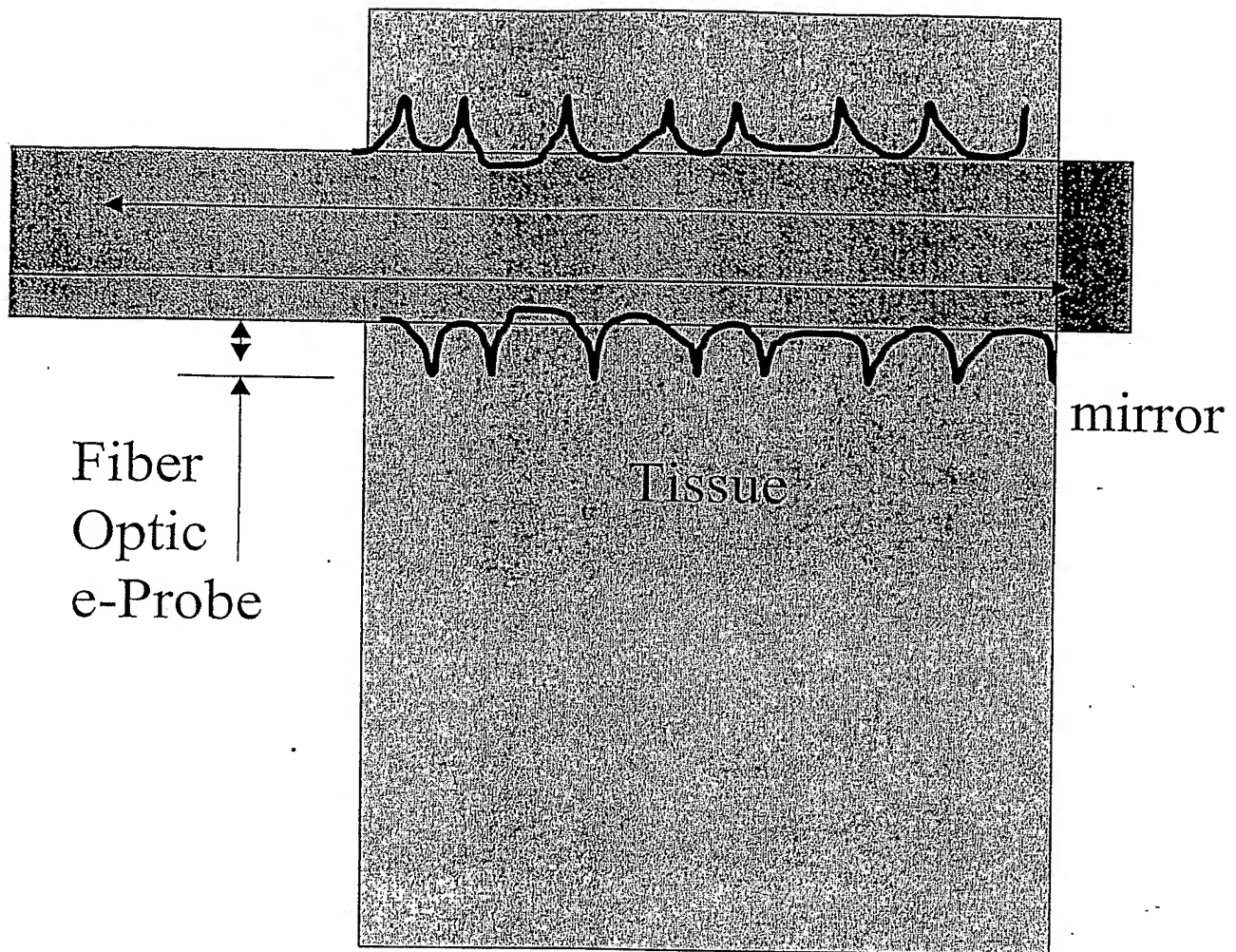
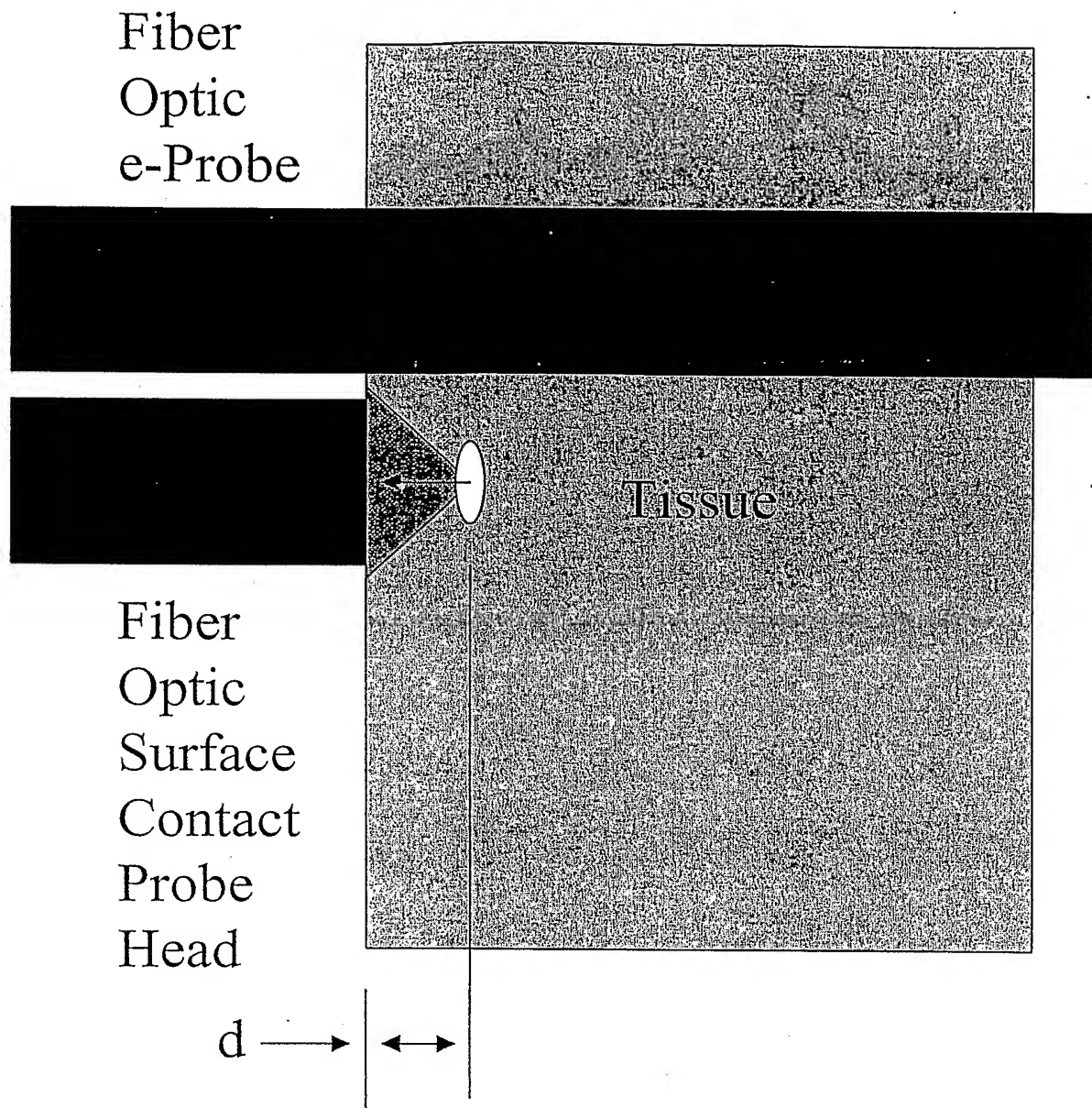


Fig.36.



E-probe for pierced ears

Fig.37A

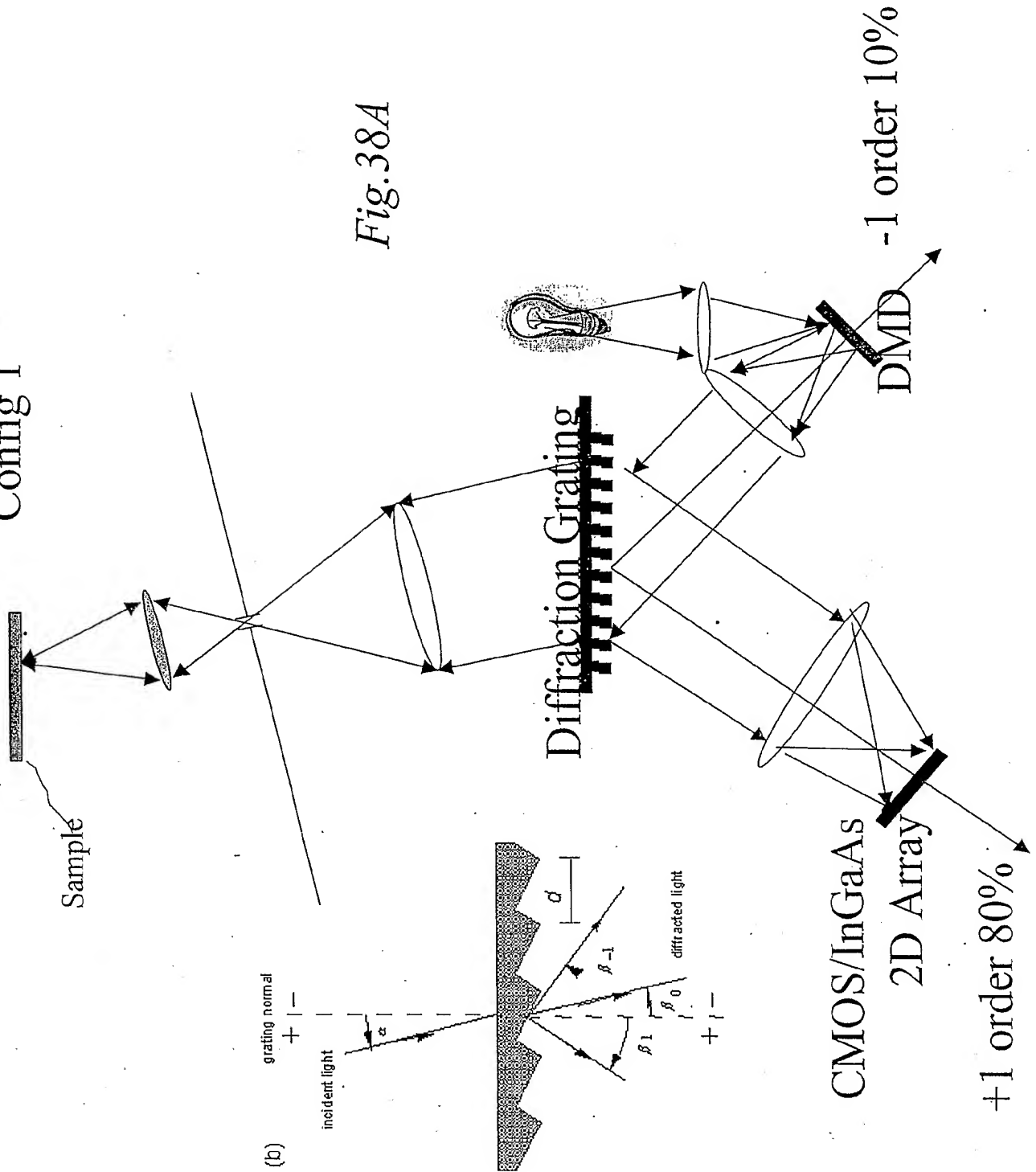


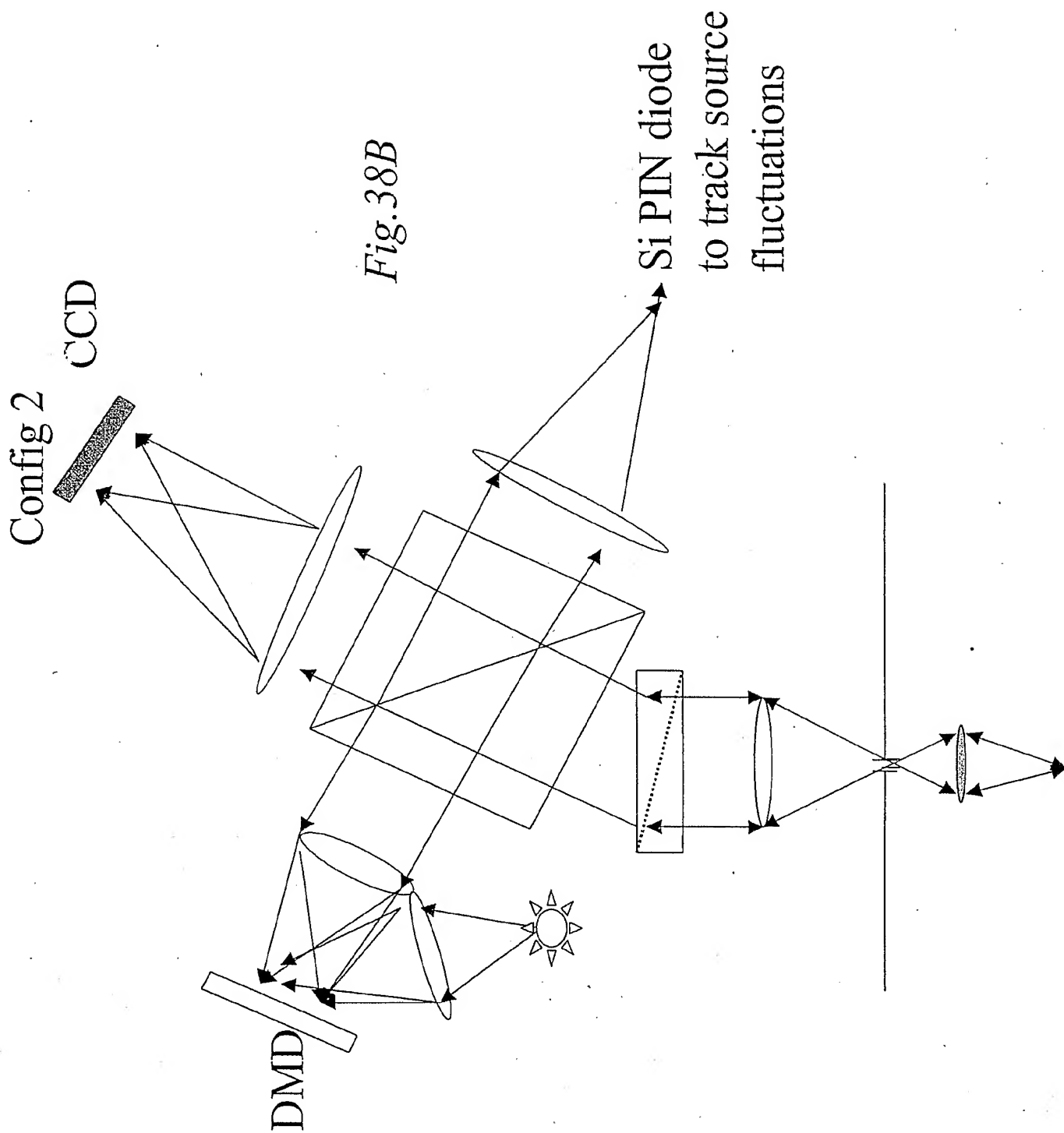
E-probe for pierced ears

Fig.37B

Config 1

Fig. 38A





Config 3

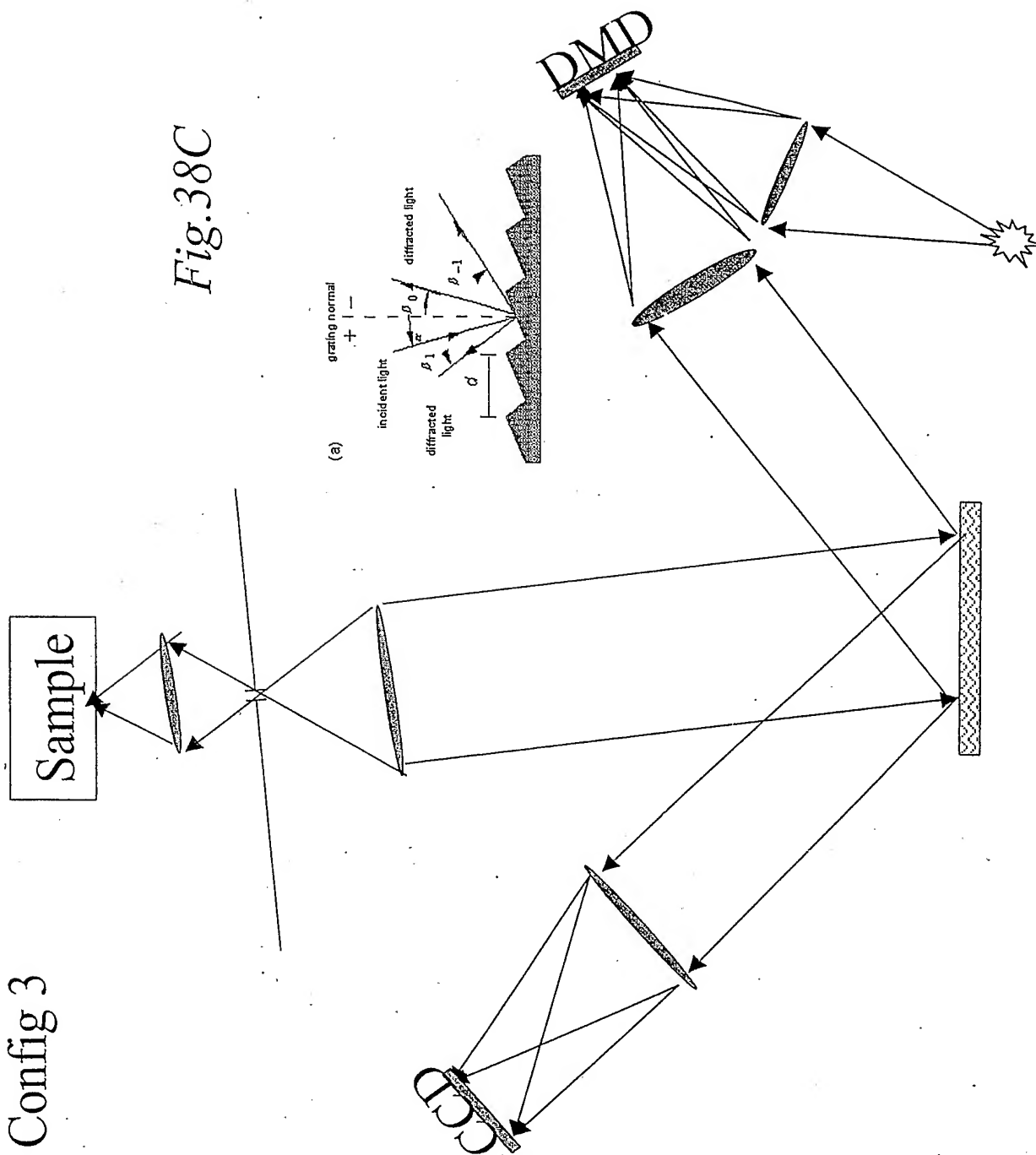


Fig.38C

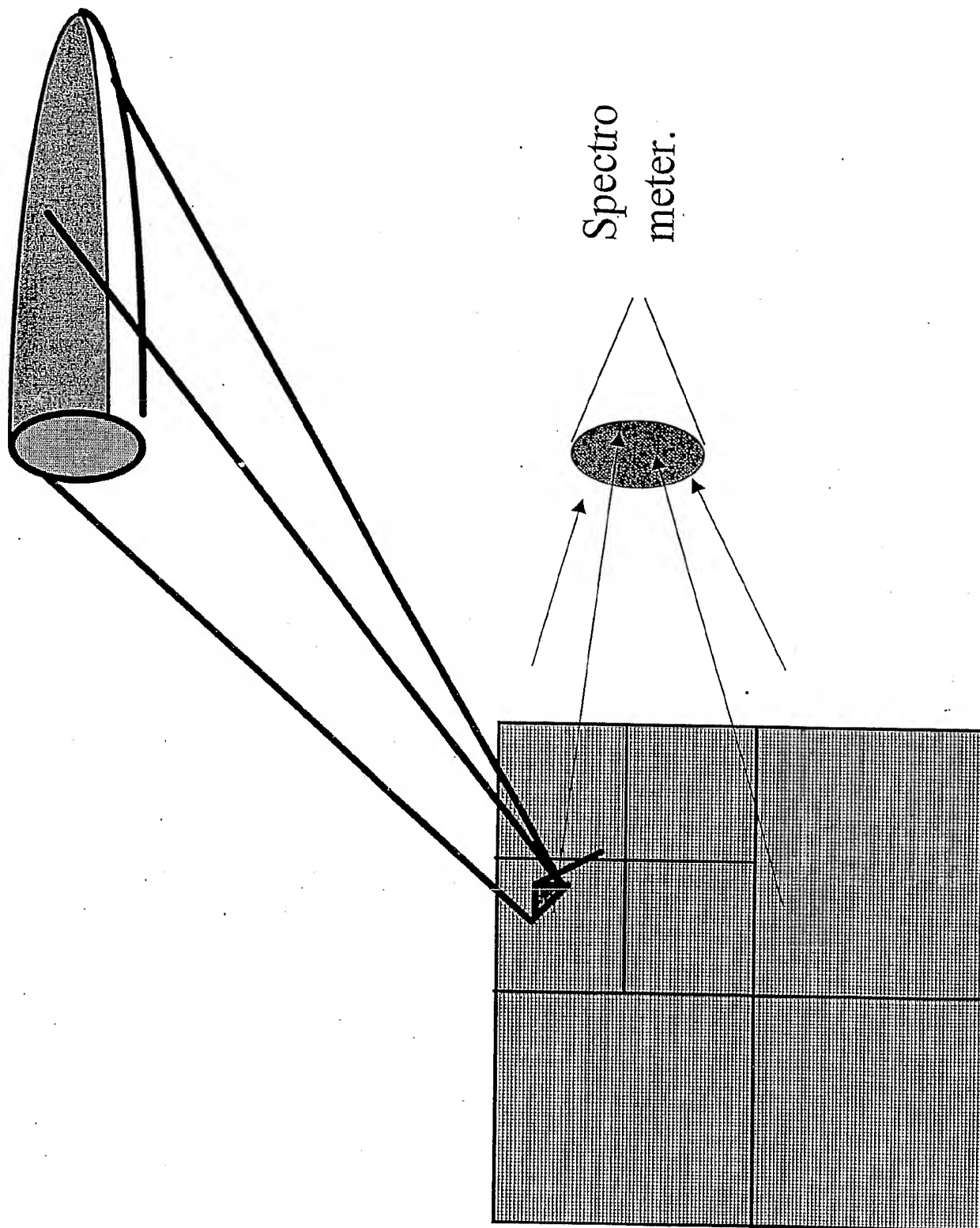


Fig. 39

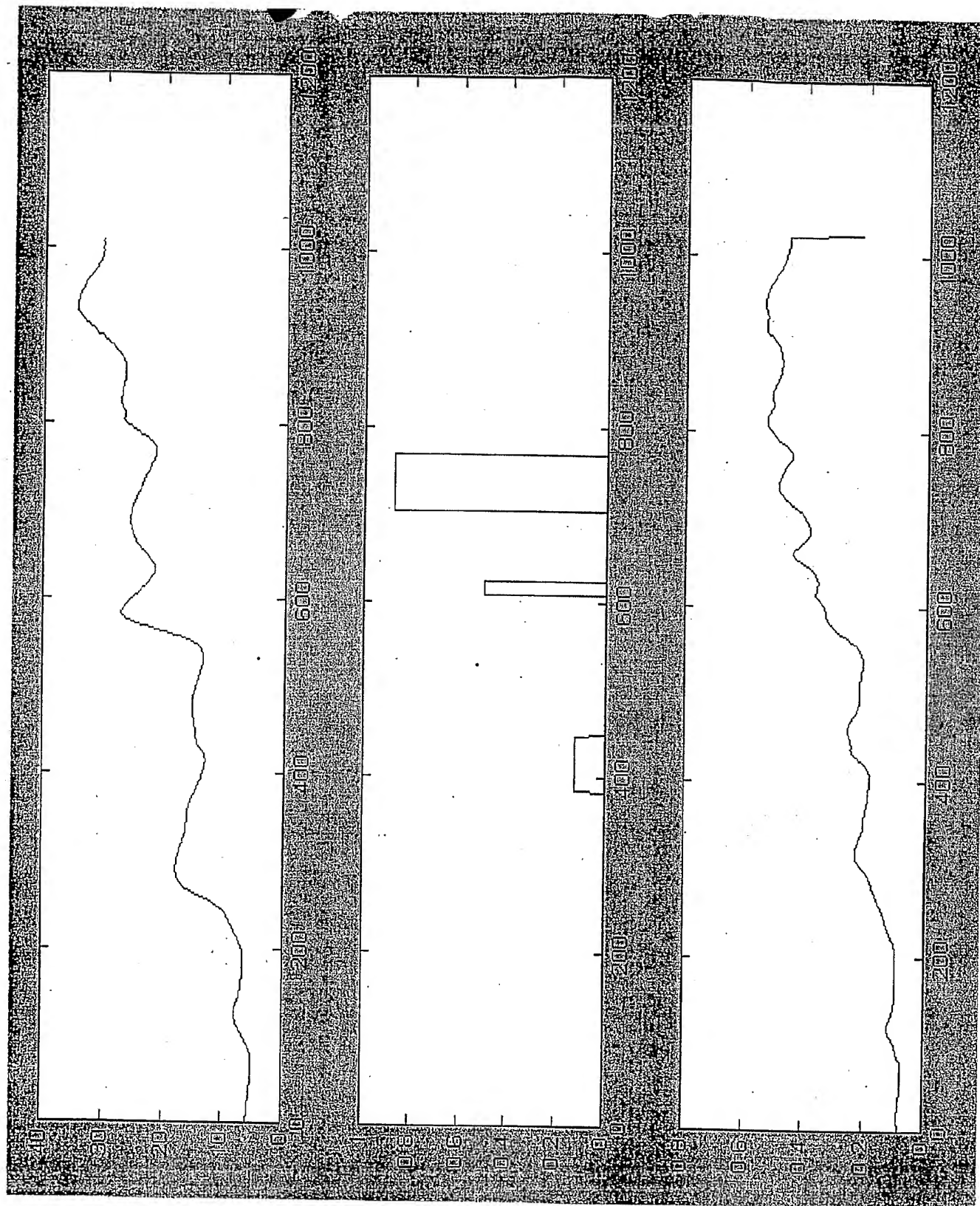


Fig. 40

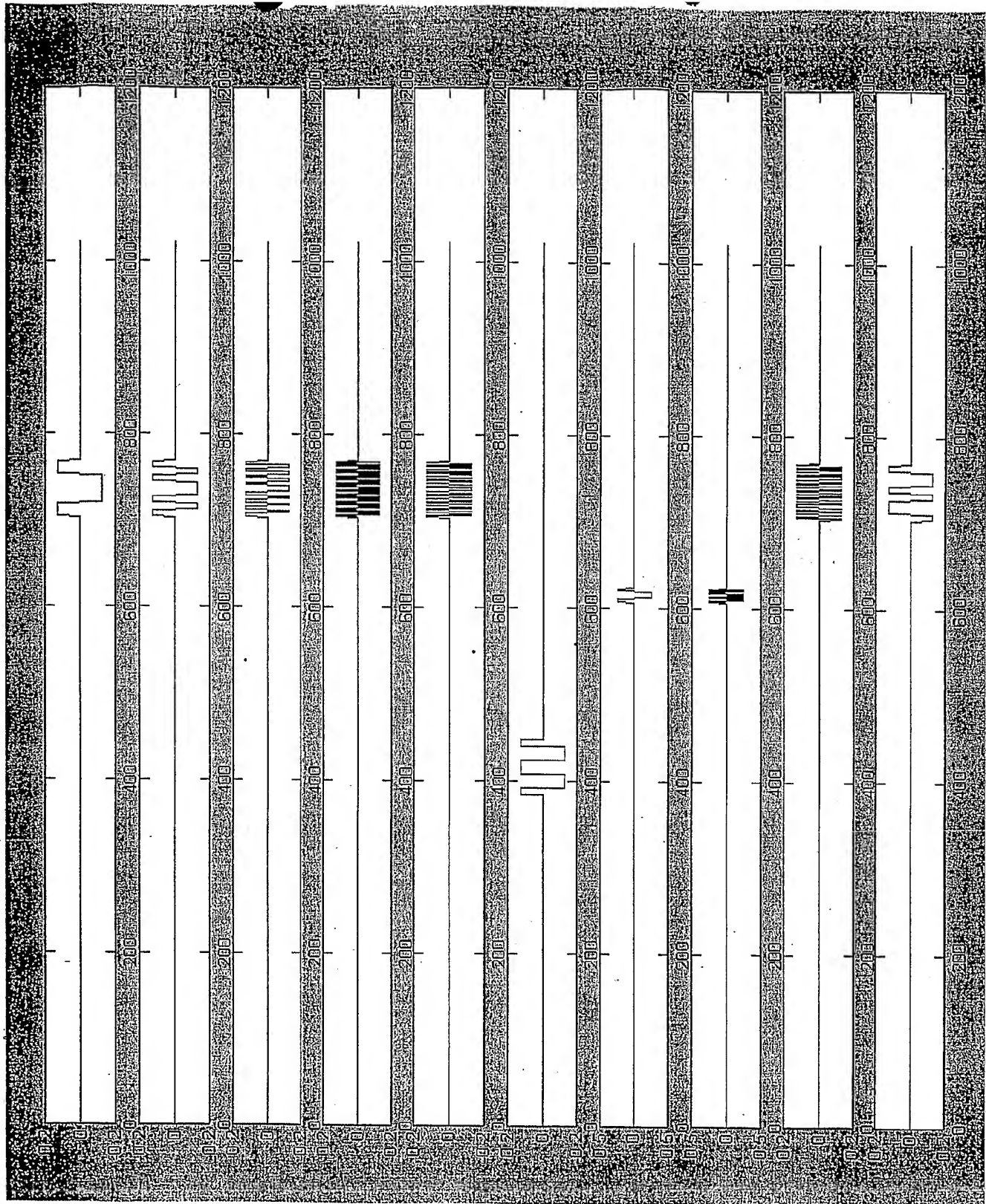


Fig. 41

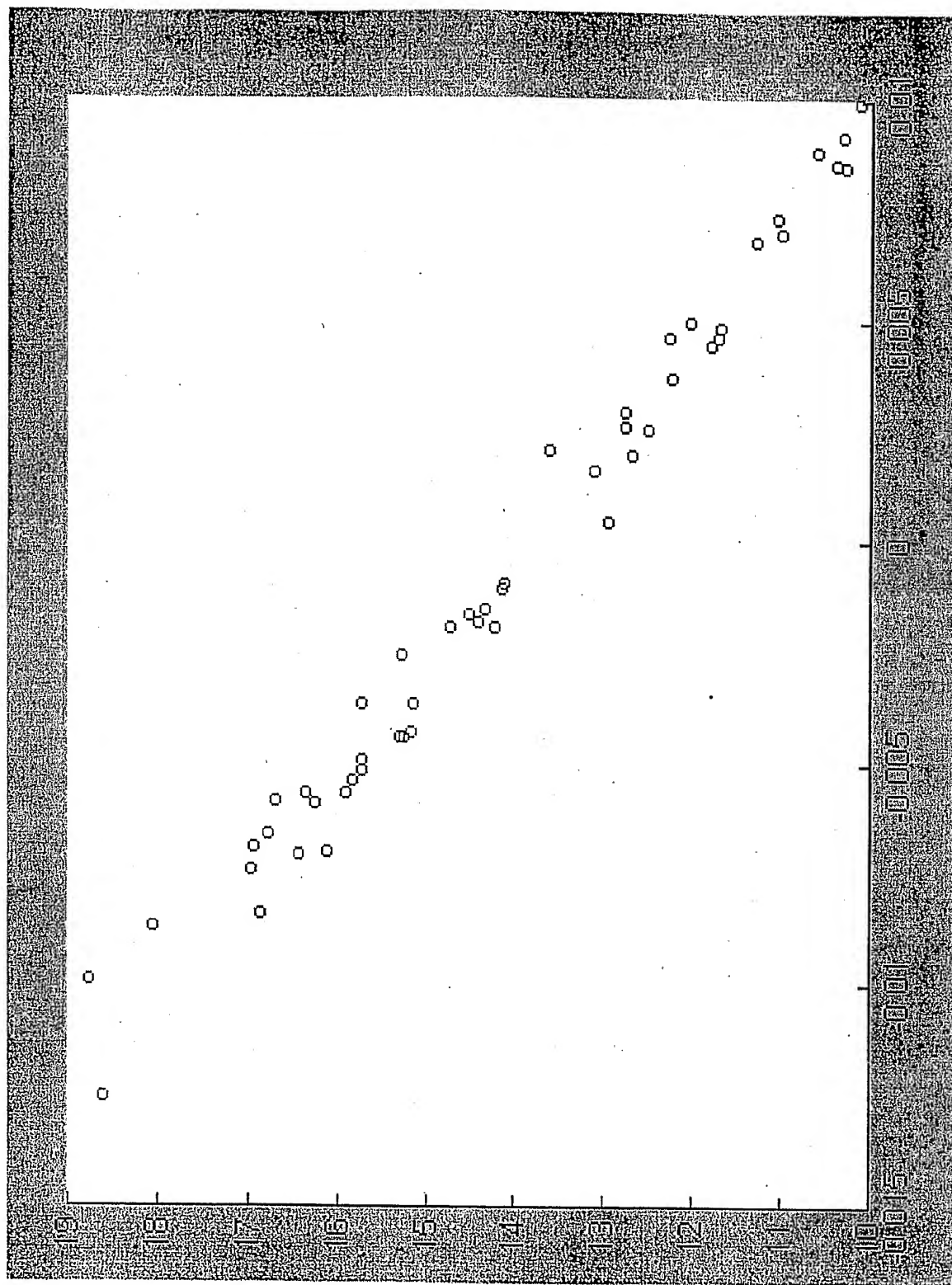


Fig. 42

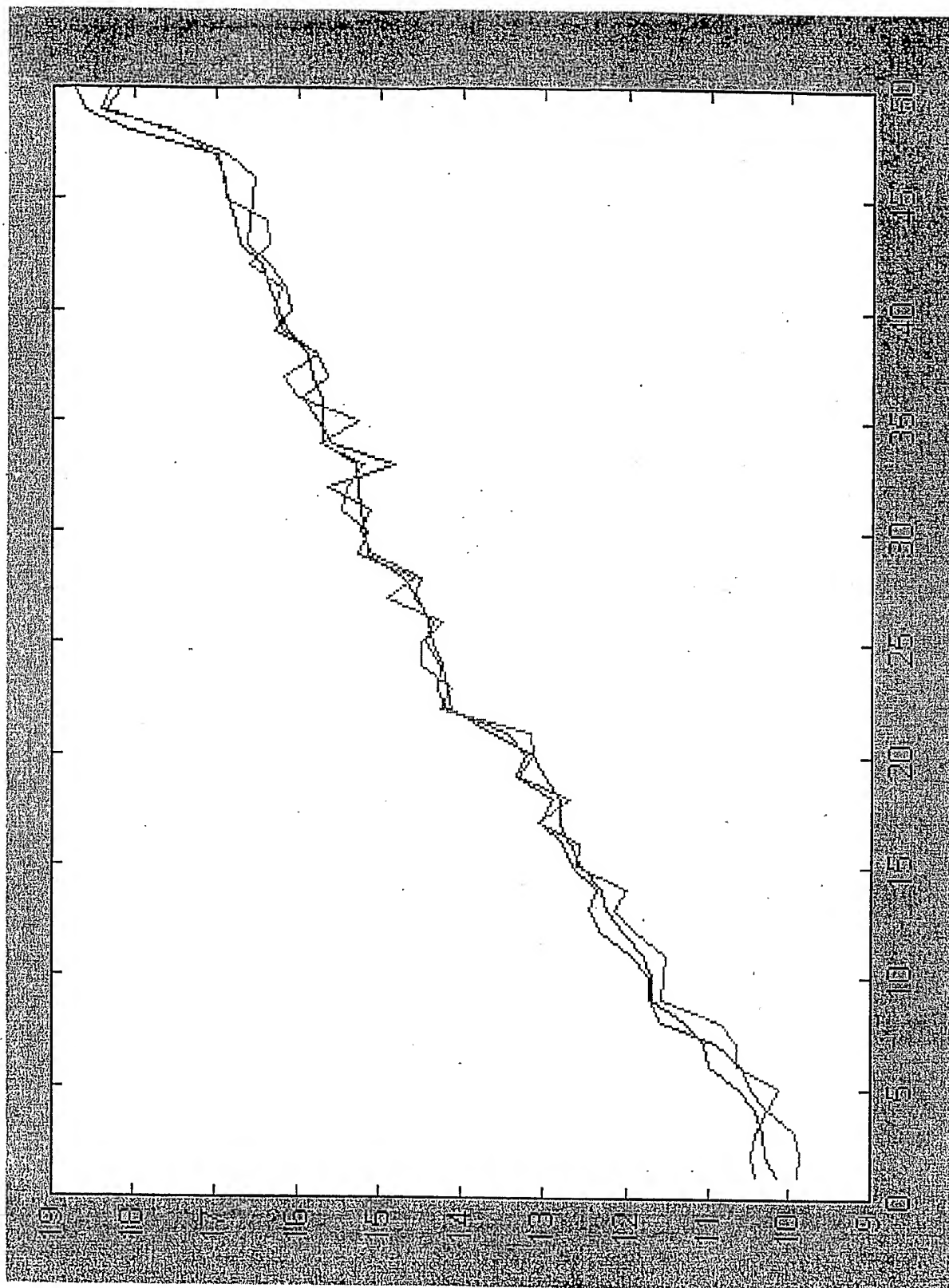


Fig. 43

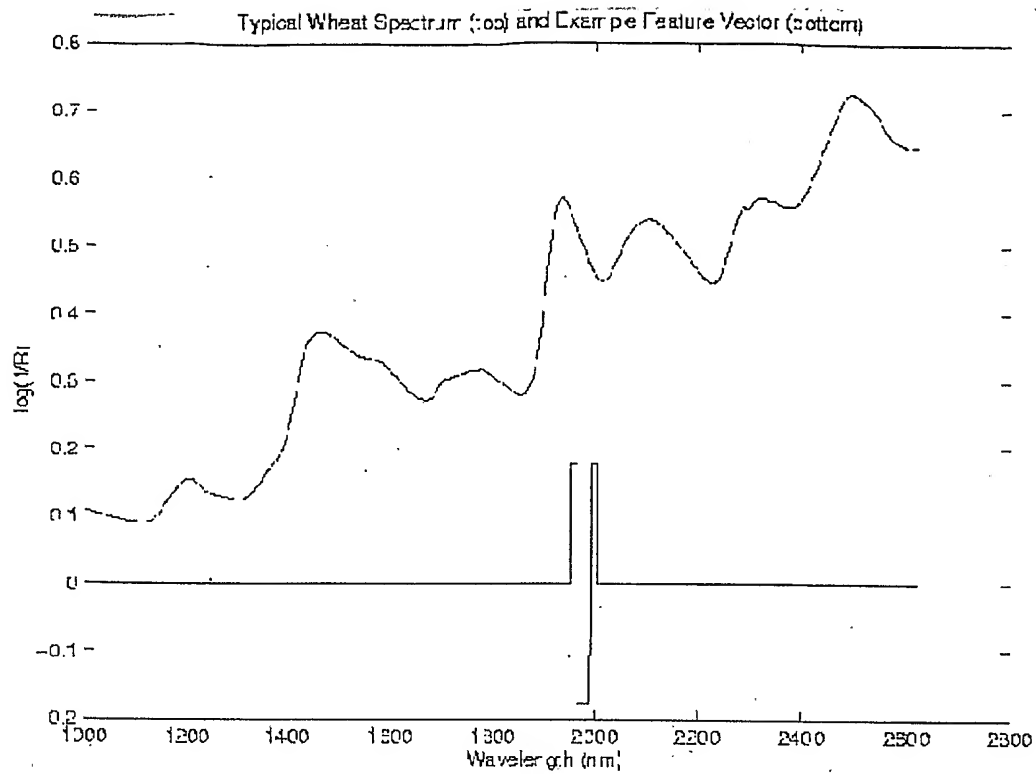


Fig. 41A

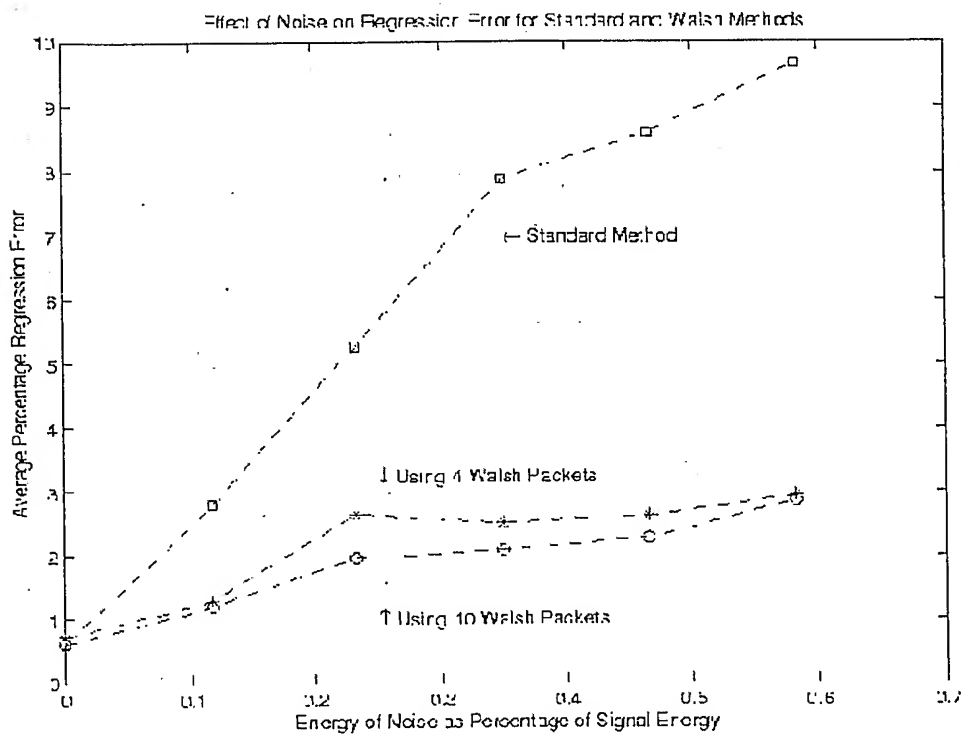


Fig 43A

Two spectra of the same weak mercury-argon lamp.

Detector = InGaAs

Collection time = 25 min

800 data points collected

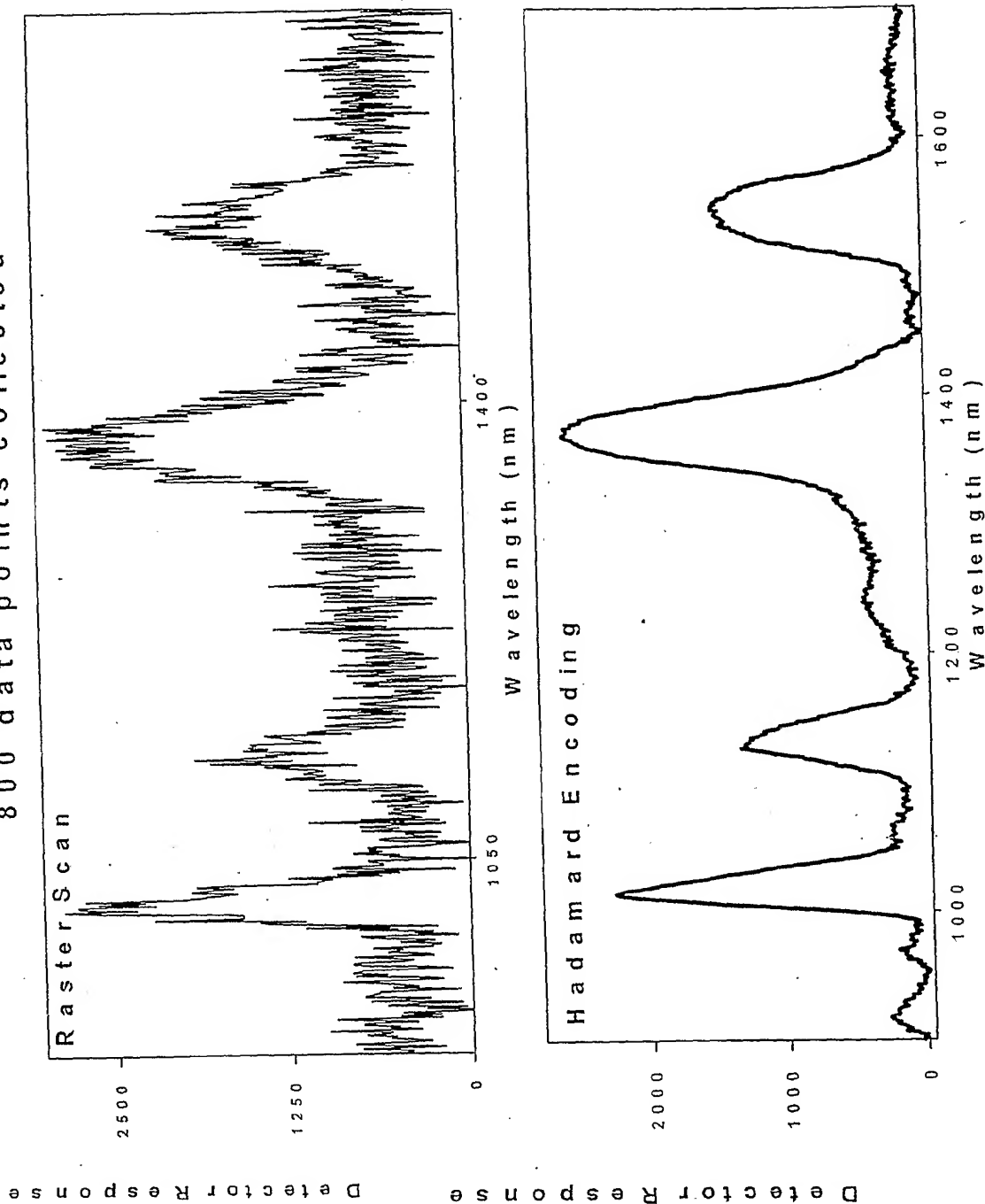
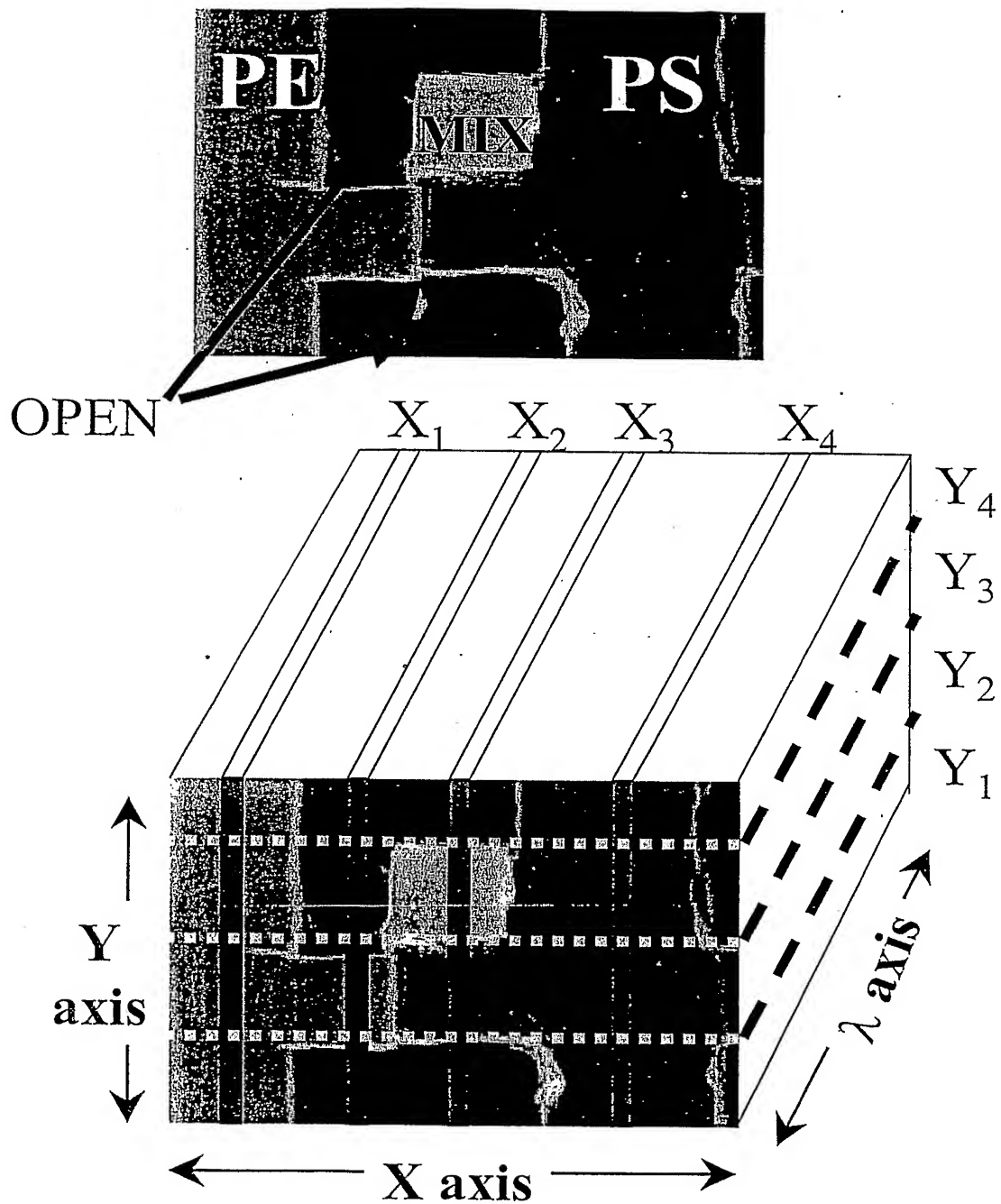


Fig. 44

Sample data map



Pushbroom scan for X spatial dimension

Fig. 45

Encodement #1

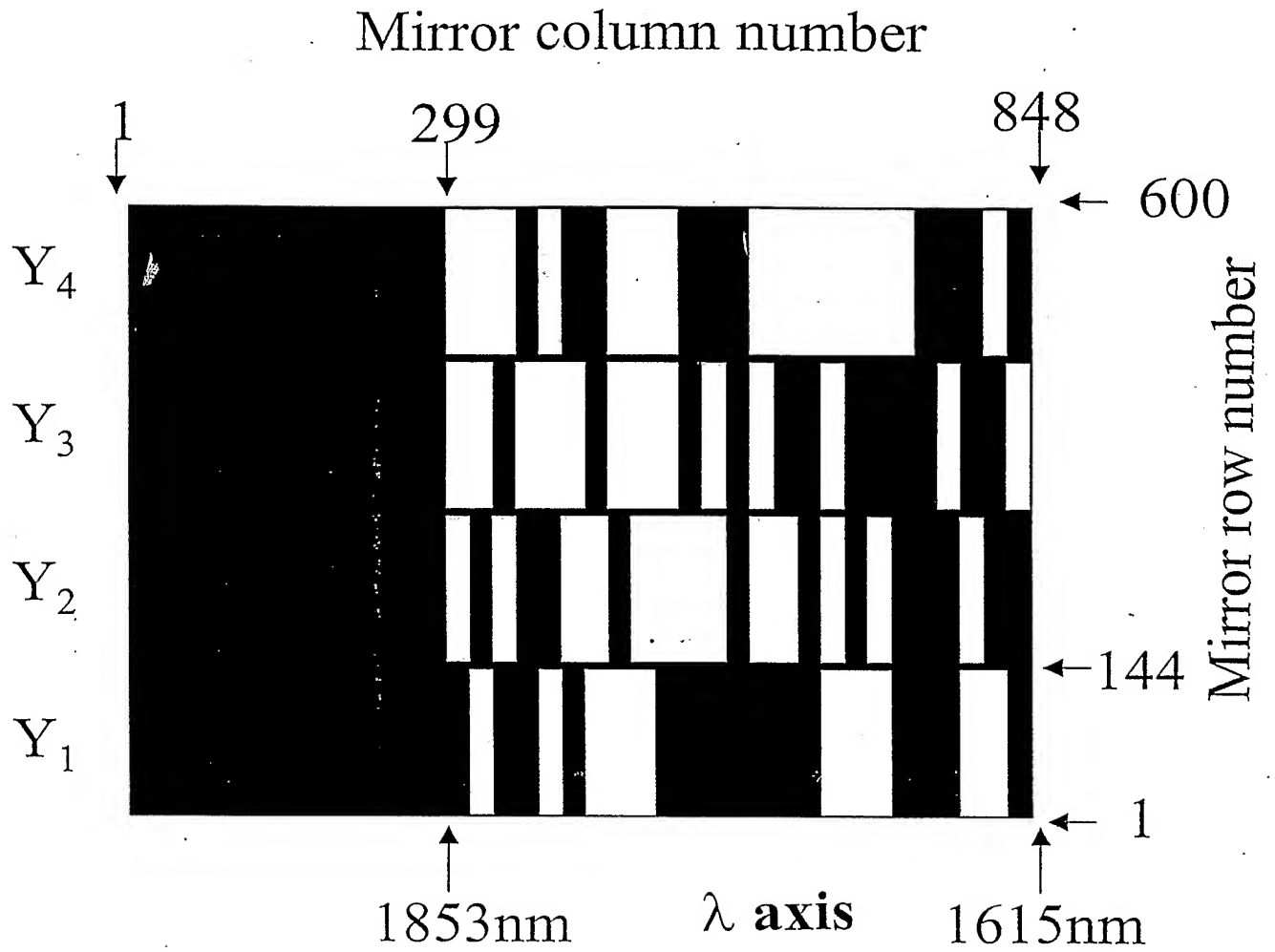


Fig. 46

DMA Programmable Resolution using 1951 USAF resolution target

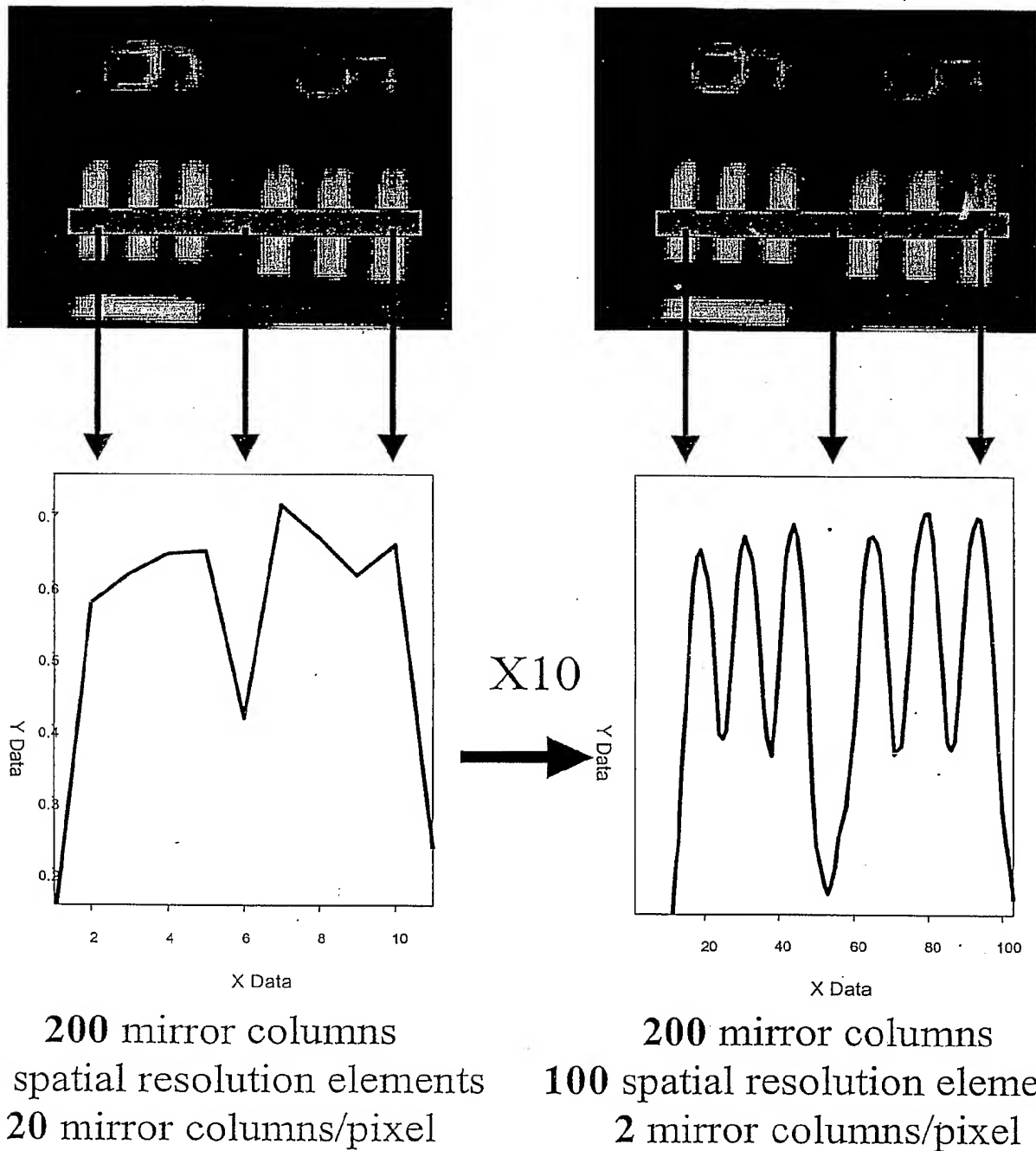


Fig. 47

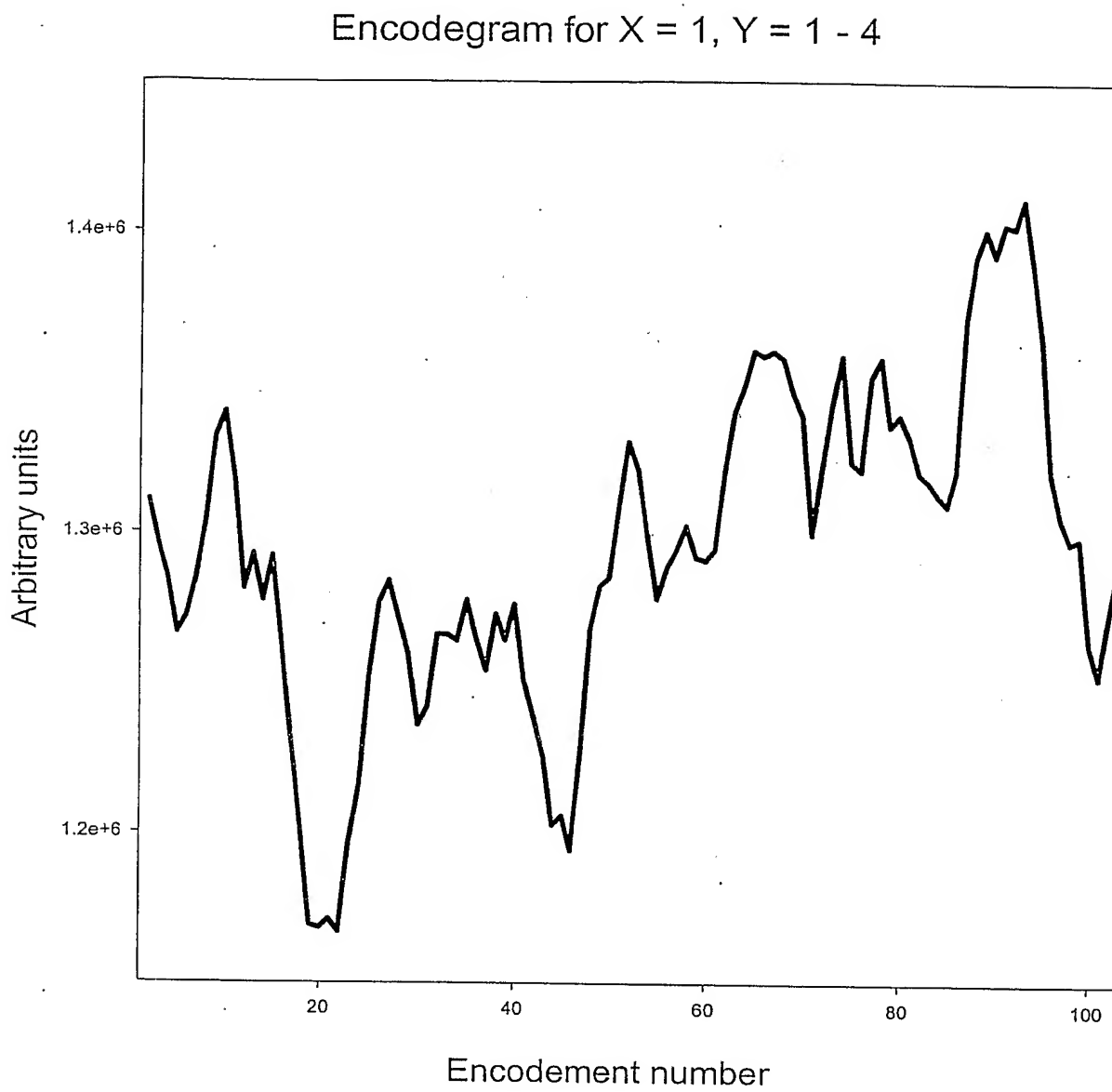


Fig. 48

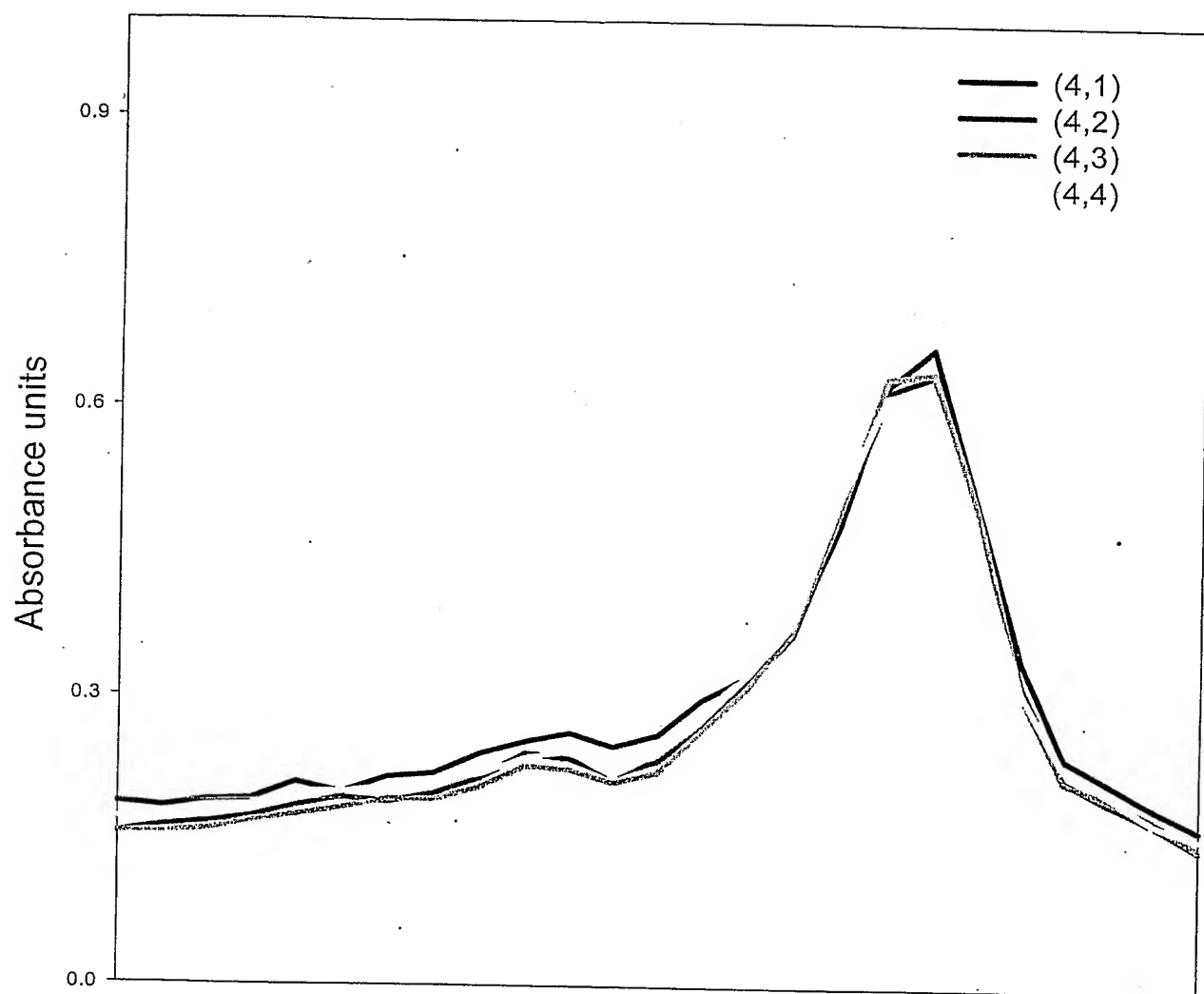


Fig. 49 A

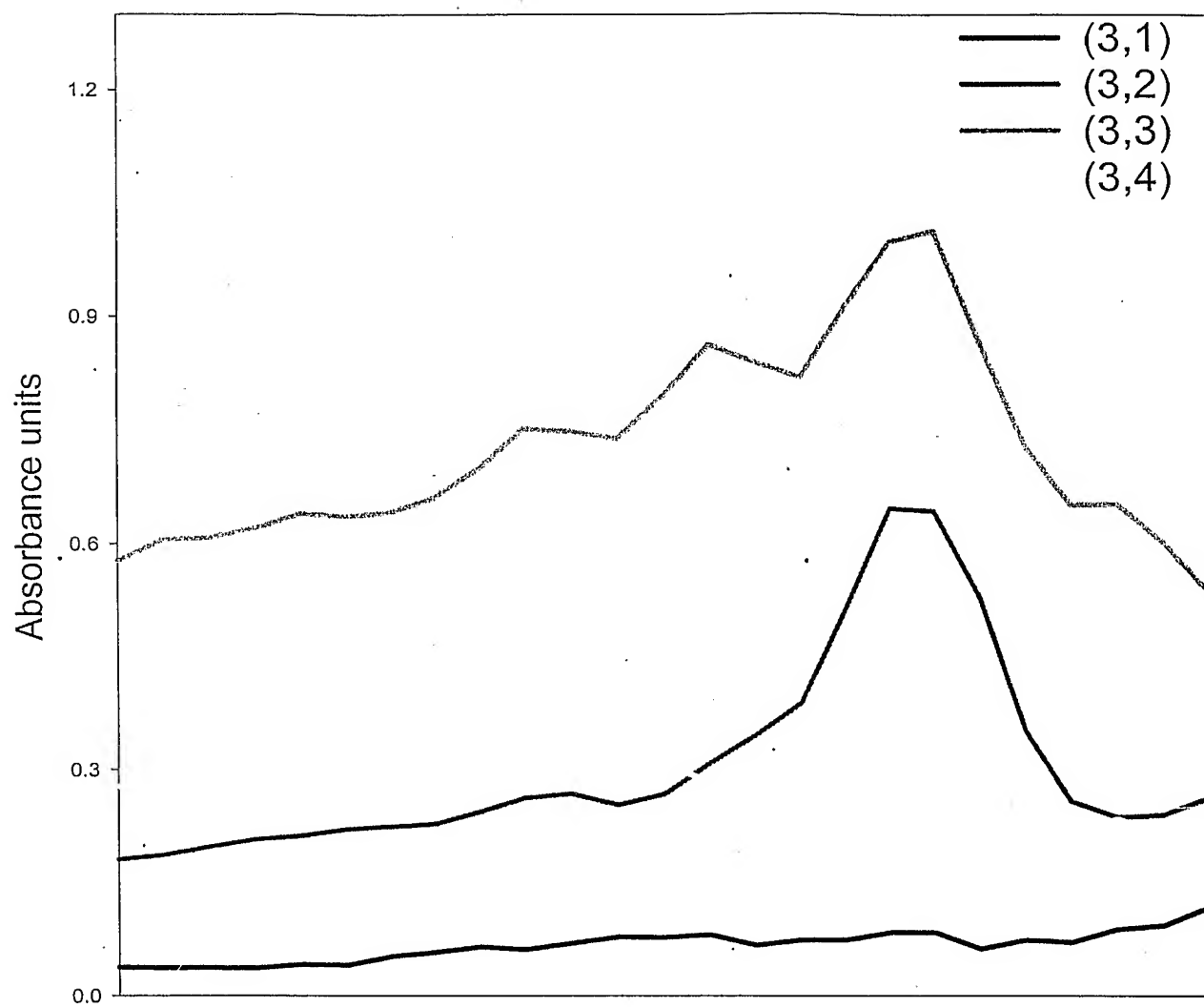


Fig. 49B

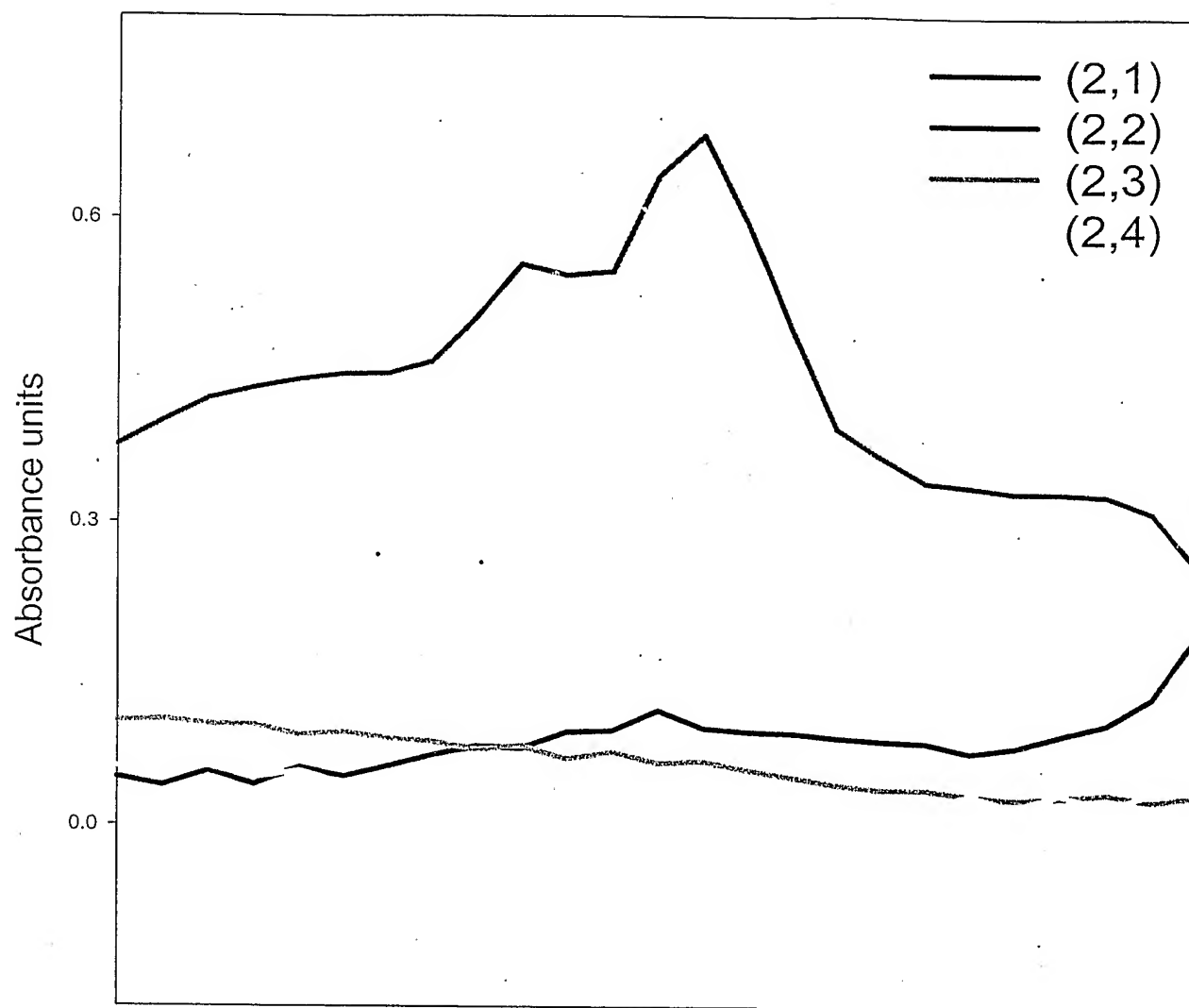


Fig. 49C

Pixel spectra for pixels X = 1, Y = 1 to 4

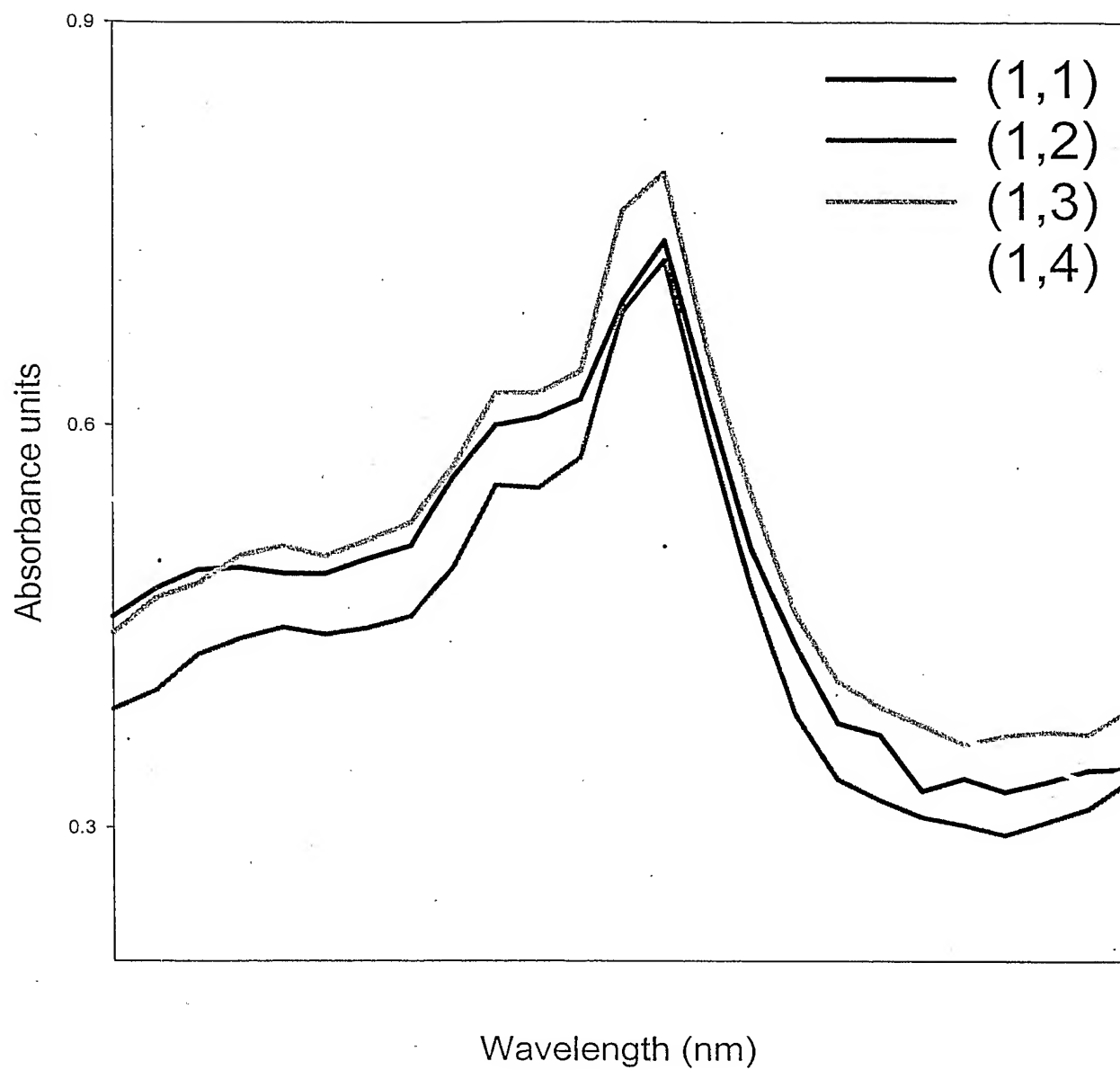
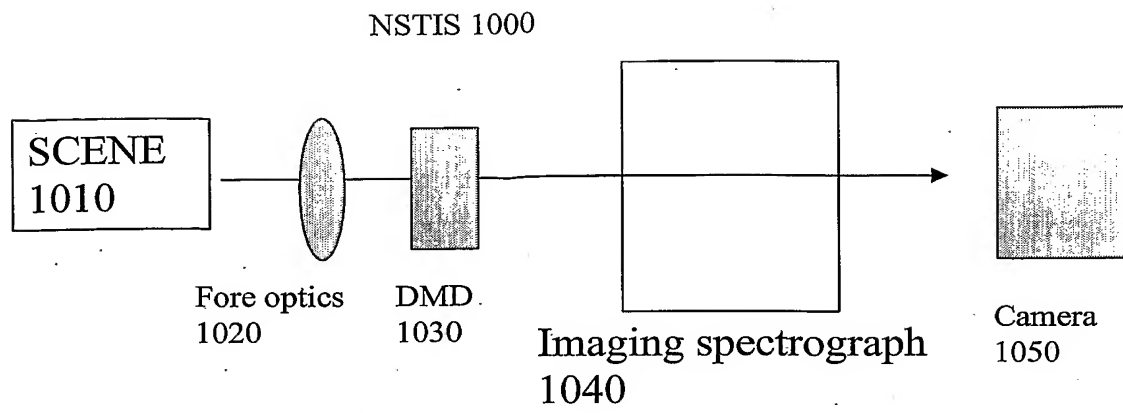


Fig. 49D

**FIG. 50**

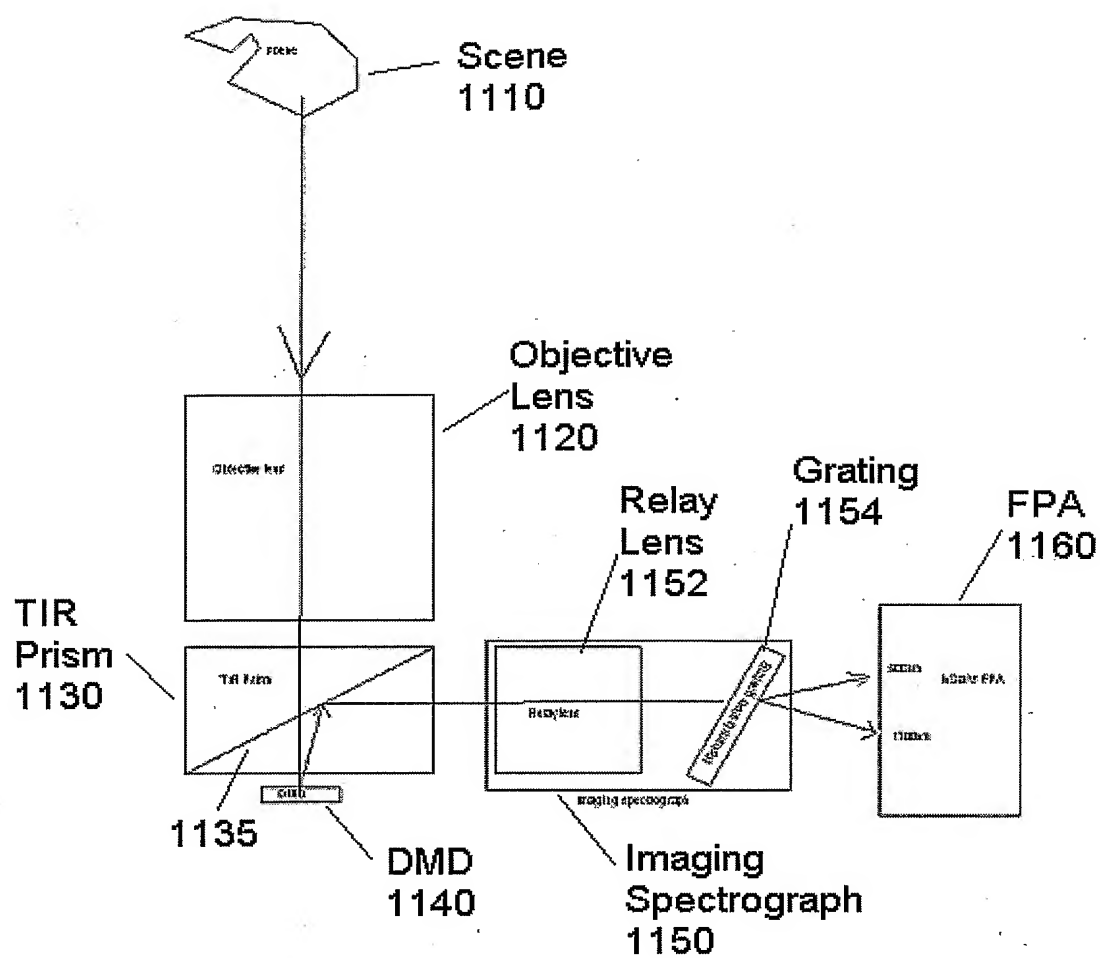


FIG. 51

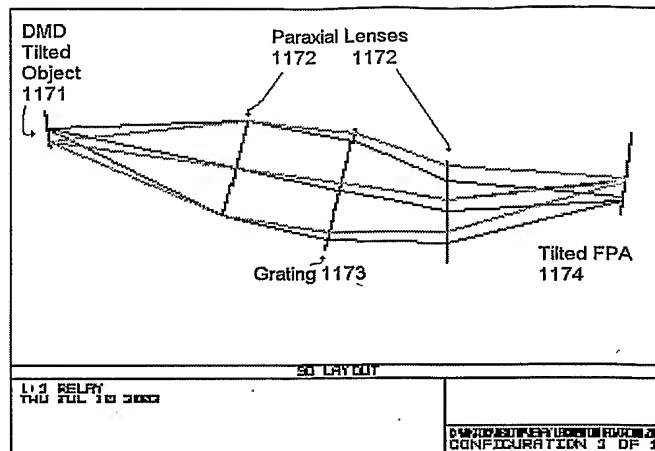


FIG. 52

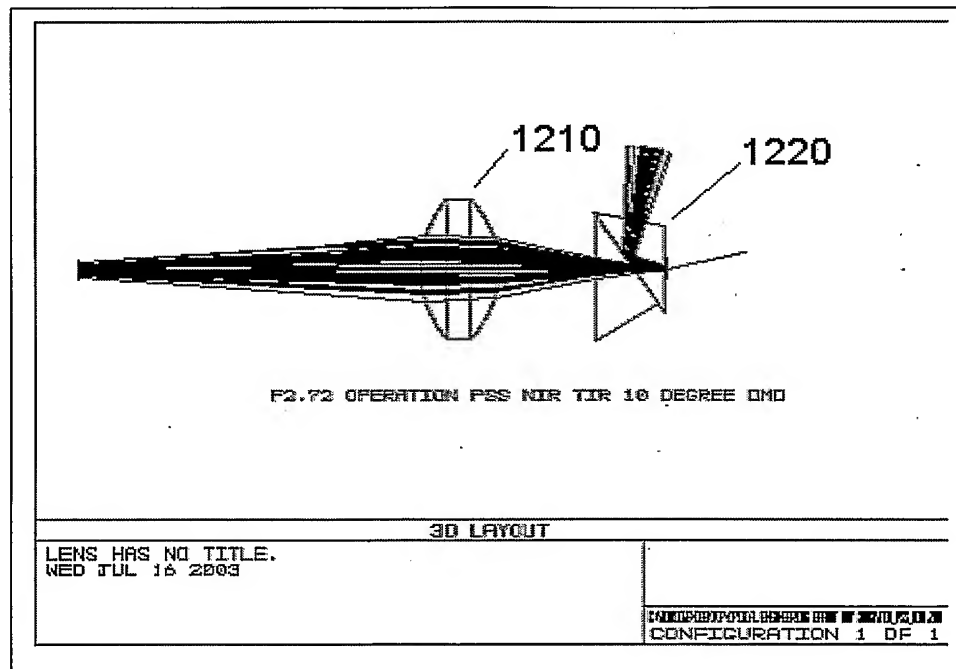


FIG. 53

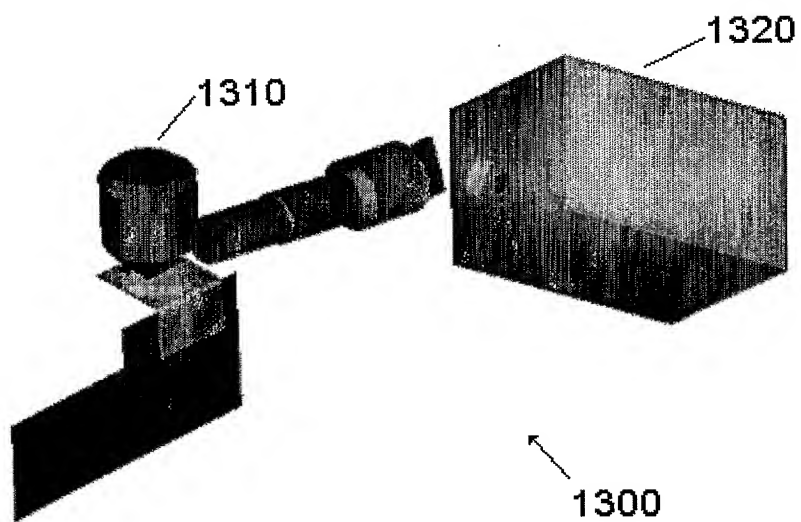


FIG. 54

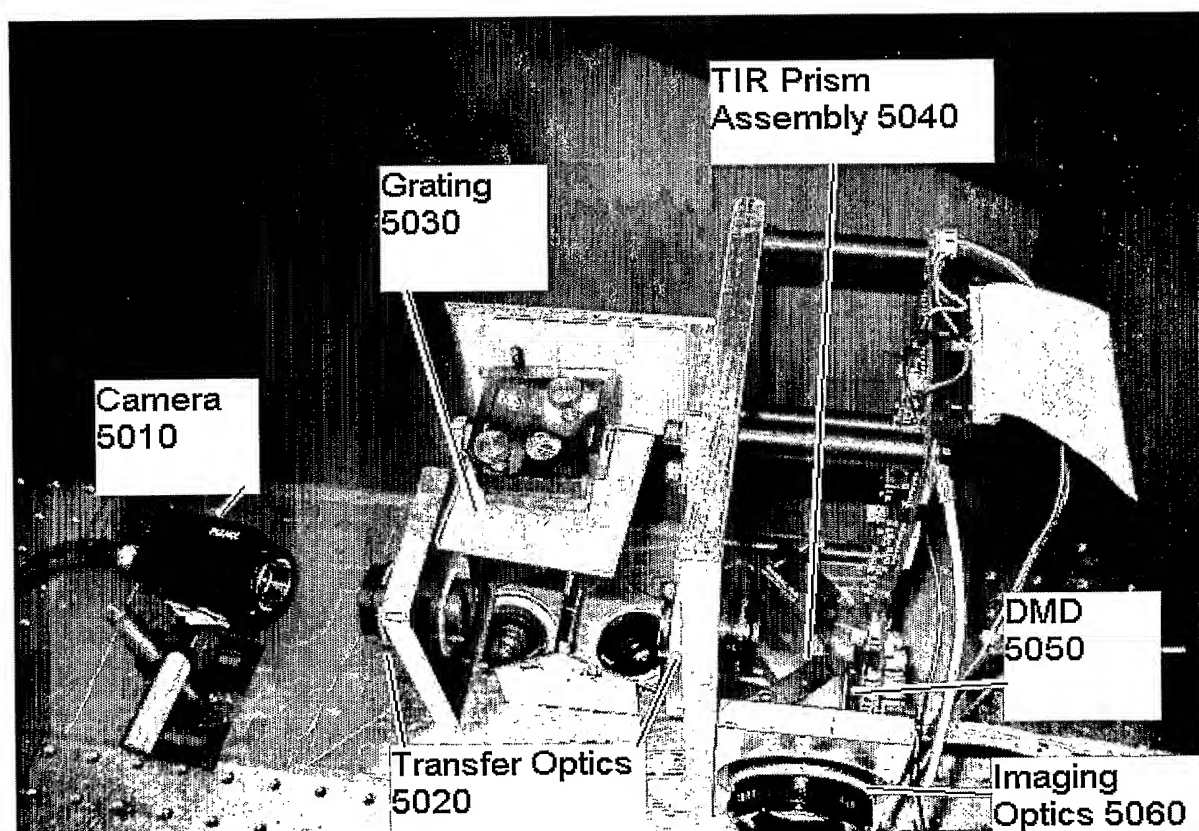


FIG. 55

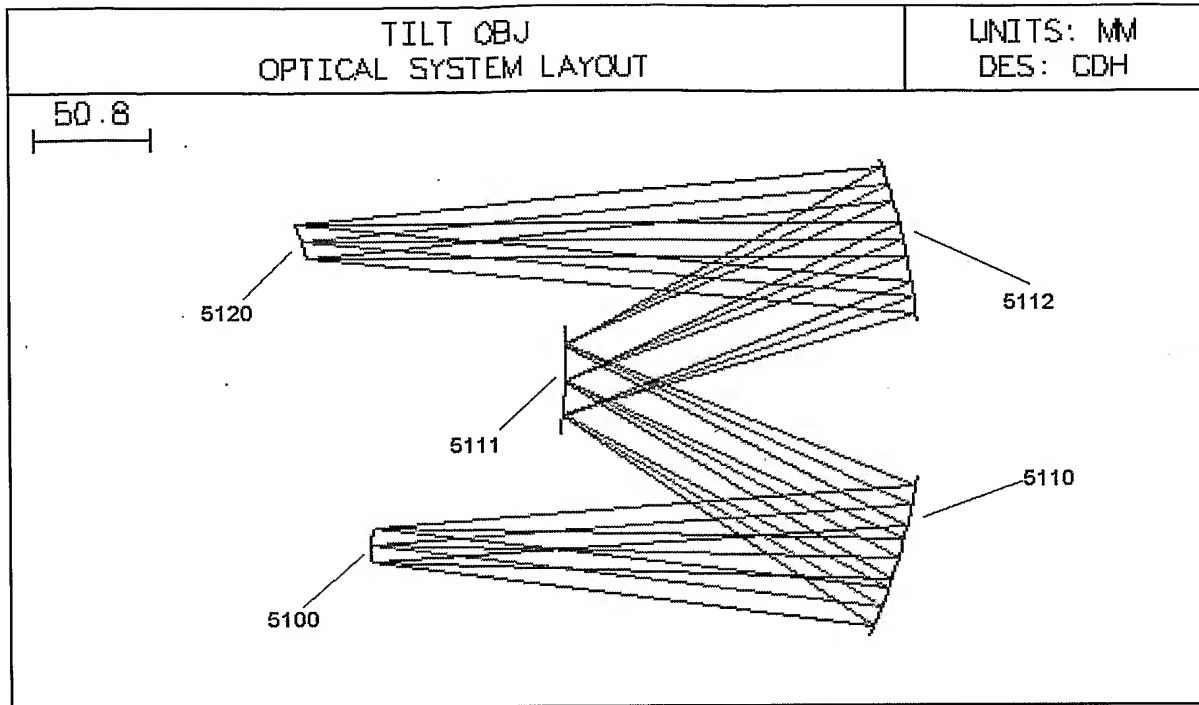


FIG. 56

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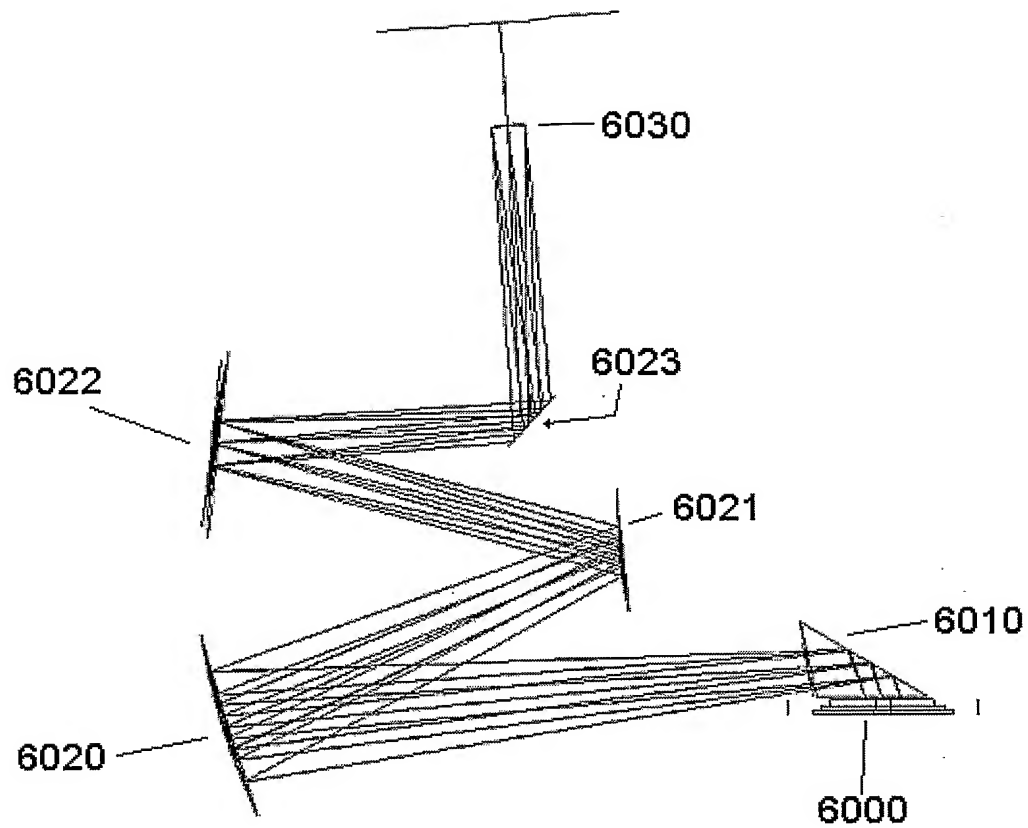


FIG. 57

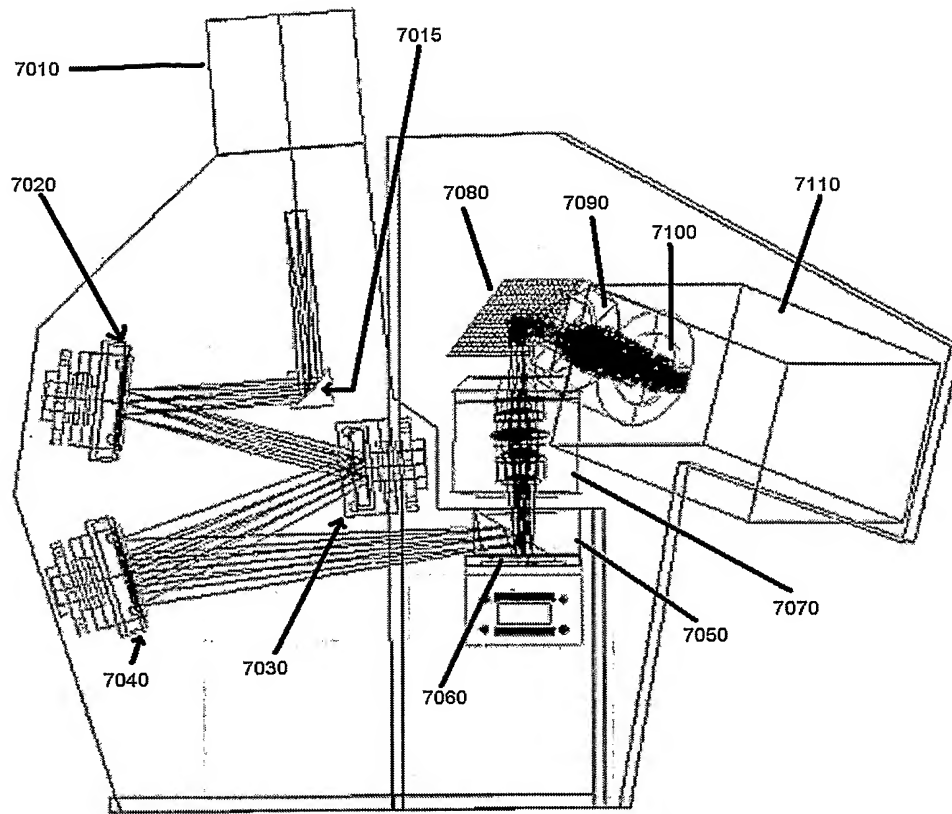


FIG. 58

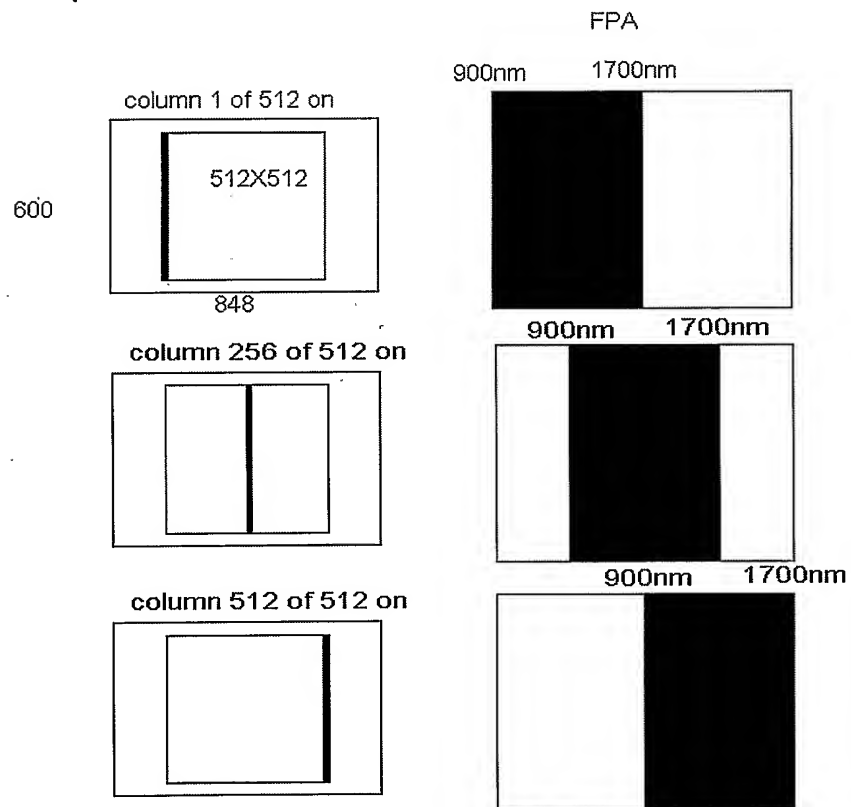


FIG. 59

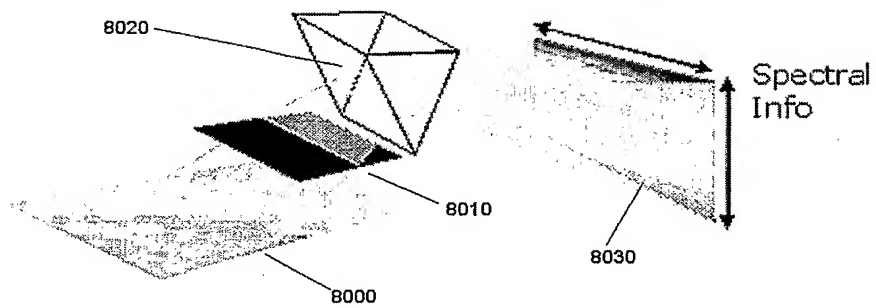


FIG. 60

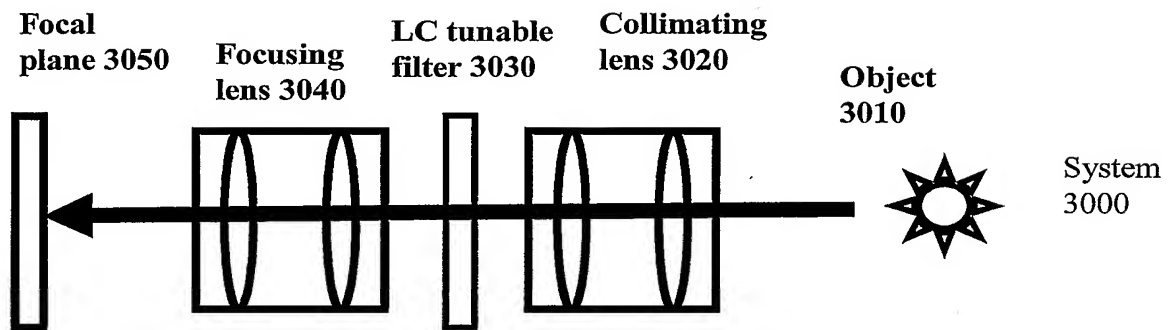


FIG. 61

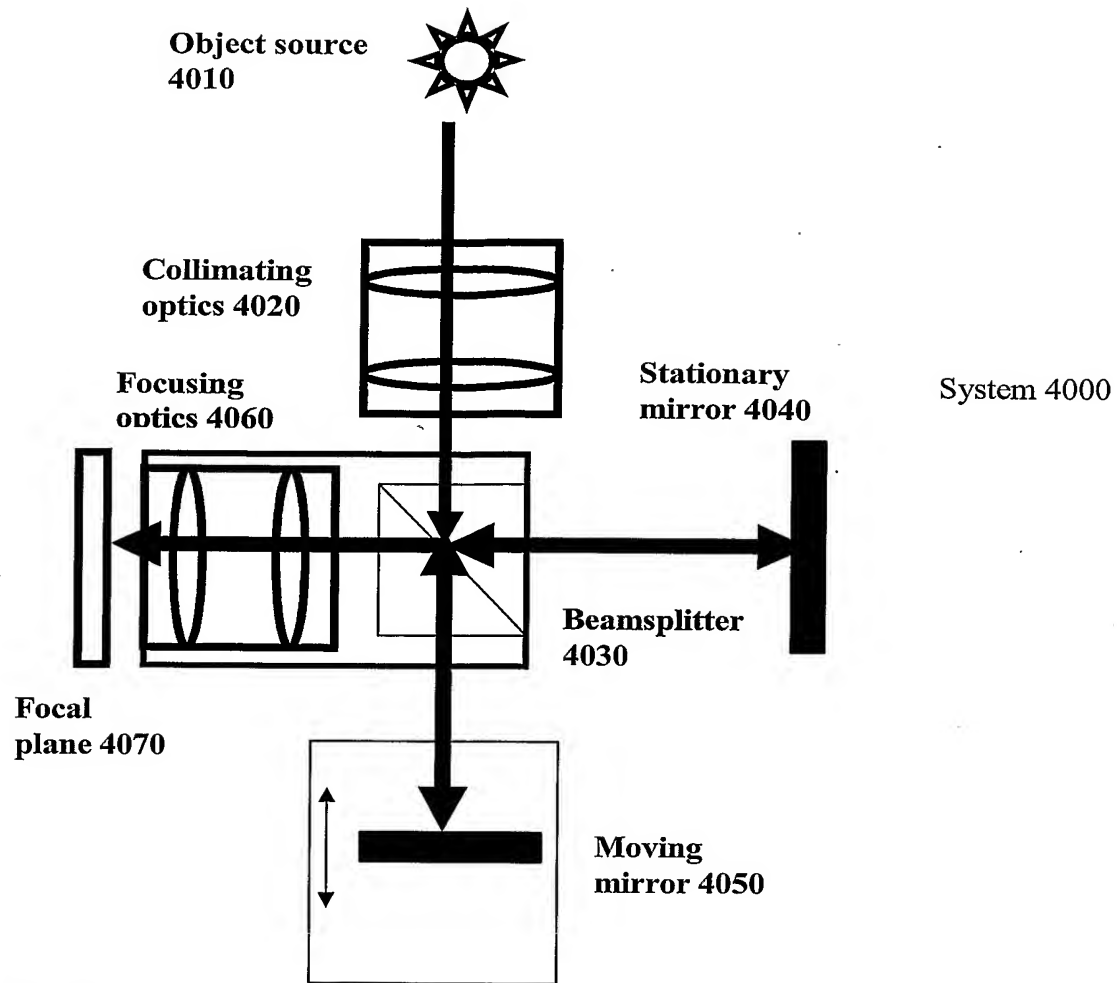


FIG. 62